

1914

Index-Medicus and Digest of Oto-Laryngology.

Note:—All titles marked with a * are abstracted under their respective numbers in the second section. All articles marked with a † have appeared as original papers in THE LARYNGOSCOPE. All articles marked with a § have been abstracted in THE LARYNGOSCOPE.

I. NOSE AND NASO-PHARYNX.

Septum.

- 1 ABBOTT, W. J. Treatment of abscess of nasal septum. *Cleveland Med. Jour.*, March, 1914.
- *2 BABBITT, J. A. Reconstruction of the nasal septum. *Jour. A. M. A.*, Nov. 21, 1914.
- 3 BAKER, C. H. Technic of submucous resection. *Mich. State Med. Soc. Jour.*, Feb., 1914.
- 4 BALLERIN. Operative treatment of deviation of nasal septum. *Arch. gen. de Med.*, p. 389, May, 1914.
- 5 BOBONE, T. Acute abscess, not traumatic, of nasal septum with secondary sub-cutaneous abscess in the right lacrimal region. *Bol. delle Mal. dell'Orecchio*, p. 49, March, 1914.
- 6 CALDWELL, R. Nasal septum. *Arkans. State Med. Soc. Jour.*, Nov., 1914.
- 7 CARTER, W. W. Dynamics of nasal development—its bearing on resection of the septum. *Ann. of Otol.*, p. 779, Dec., 1914.
- 8 CHURCHMAN, V. T. Submucous resection of nasal septum. *W. Va. Med. Jour.*, Jan., 1914.
- 9 DUTROW, H. V. Deformities of nasal septum and operation for its submucous resection with original incision. *Lancet-Clinic*, p. 55, Jan. 17, 1914.
- 10 FRELIGH, C. A. Submucous resection of septum. *Tex. State Jour. of Med.*, p. 267, Jan., 1914.
- 11 FURET, F. Treatment of deviations of the septum. *Rev. hebdom. de Laryngol.*, p. 651, Jan. 17, 1914.
- 12 HARRISON, W. J. Hyperplasia of the nasal septum associated with nasal polypi. *Jour. of Laryngol.*, p. 193, April, 1914.

- 13 HARRISON, W. J. Method of dealing with septal perforations. *Jour. of Laryngol., Rhinol. and Otol.*, p. 74, Feb., 1914.
- 14 KING, J. J. Satisfactory local anesthesia for the submucous resection of nasal septum. *Jour. A. M. A.*, p. 1724, May 30, 1914.
- 15 KOFLER, K. Per-septal operations on the lateral nasal wall. *Monatschr. f. Ohrenh.*, Heft 1, p. 139, 1914.
- 16 LEONHARD, J. VAN DER H. Bi-submucous resection of septum nasi. *Jour. of Laryngol.*, p. 419, Aug., 1914.
- 17 LEVINSTEIN. Duckbill nose as a result of the submucous septal resection. *Ztschr. f. Laryngol.*, Bd. 7, Heft 1, p. 9, 1914.
- 18 LEVINSTEIN. Significance of hyperplasia of tuberculum septi in pathology and therapy of nasal reflex neurosis. *Ztschr. f. Laryngol.*, Bd. 7, Heft 3, p. 315, 1914.
- 19 LINHART, C. P. Simple operation for removal of spurs and deflections of nasal septum. *O. State Med. Jour.*, March, 1914.
- 20 LYSTER, T. C. Military importance of deviations of septum. *Mil. Surg.*, p. 12, Jan., 1914.
- 21 MACFARLAN, D. Some points about the initial incision in the submucous operation. *Jour. Ophth. and Oto-Laryngol.*, p. 83, Feb., 1914.
- 22 McCAW, J. F. Indications for operation on nasal septum. *N. Y. State Jour. of Med.*, Jan., 1914.
- 23 MCCREADY, J. H. Intra- and extra-nasal indications for submucous resection of septum. *Pa. Med. Jour.*, May, 1914.
- 24 MCKENZIE, D. Abscess of nasal septum secondary to furuncle of the vestibule. *Jour. of Laryngol.*, p. 138, March, 1914.
- 25 MERMOD. Reorganization of the chondro-osseous septum after submucous resection of the septum. *Arch. intern. de Laryngol.*, p. 715, May-June, 1914.
- 26 ODELL, A. Personal experiences with submucous operation. *Mich. State Med. Soc. Jour.*, Feb., 1914.
- 27 ONODI, L. Congenital teratoid tumor of the nasal septum in a case of cheilognathopalatoschisis. *Arch. f. Laryngol.*, Bd. 29, Heft 1, p. 30, 1914.
- †28 PATTON, W. T. Case of supplemental vicarious menstruation cured by submucous resection of nasal septum. *THE LARYNGOSCOPE*, p. 184, March, 1914.
- 29 SARGNON. Surgical treatment of nasal deformities; living prosthesis of cartilage of bone. Prosthesis of fetal cartilage preserved in Ringer's fluid. *Bull. d'oto-rhino-laryngol.*, p. 252, July, 1914.
- §30 SIMPSON, W. L. Method of closing perforations of the septum of the nose. *Jour. A. M. A.*, p. 30, July 4, 1914; *THE LARYNGOSCOPE*, p. 17, Feb., 1915.
- 31 SIMPSON, W. L. Complications of submucous resection of the nose. *South. Med. Jour.*, Aug., 1914.
- †32 STAUFFER, N. P. Submucous operation for correcting nasal deformities; symptoms indicating operation; methods and difficulties encountered. *THE LARYNGOSCOPE*, p. 720, Aug., 1914.
- †33 TYDINGS, O. New submucous septal operation. *THE LARYNGOSCOPE*, p. 977, Dec., 1914.
- 34 WALB. Cystoid degeneration of the tuberculum septi narium. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 296, 1914.

Turbinals.

- 35 BLEDSOE, R. W. Plea against still too frequent sacrifice of turbinates. *S. Med. Jour.*, July, 1914.
- †36 GRADLE, H. S. Freezing of the inferior turbinate. *THE LARYNGOSCOPE*, p. 718, Aug., 1914.
- 37 HAGEMANN, J. A. Middle turbinate as a factor in headache. *Pa. Med. Jour.*, Aug., 1914.
- †38 LUBMAN, M. Improved method for removing the posterior tip of the inferior turbinate. *THE LARYNGOSCOPE*, p. 494, May, 1914.
- 39 PEYRE, W. Rapid, painless, bloodless method of removing the inferior turbinate. *Jour. A. M. A.*, p. 579, Aug. 15, 1914.

Adenoids.

- 40 ADAMS, C. F. Adenoids as factor in amblyopia. *Ophthalmol.*, Jan., 1914.
- †41 BAKER, S. J. Hypertrophied tonsils and adenoid vegetations in public school-children in New York City. *THE LARYNGOSCOPE*, p. 143, Feb., 1914.
- 42 BERRANGER. Lacoarret's method of adenotomy. *Ann. de la Policlin. de Toulouse*, Feb., 1914.
- 43 BURGER, H. Adenoid physiognomy. *Bib. J. Leger*, No. 4, 1914.
- 44 CORWIN, A. M. Relation of adenoids and tonsils to mental deficiency. *Ill. Med. Jour.*, Oct., 1914; *Jour. Ophth. and Oto-Laryngol.*, p. 388, Dec., 1914.
- 45 GEZES, R. Adenoid follicle and lues. *Rev. hebdomadaire de Laryngol.*, p. 80, Jan. 17, 1914.
- 46 JONES, C. C. Adenoids. *Lancet-Clin.*, July 25, 1914.
- 47 MOSSE, P. Adenoid vegetation and acetone vomit. *Bull. d'oto-rhino-laryngol.*, p. 245, July, 1914.
- 48 PAGET, O. F. Adenoids or the parentage of the incapable nose. *Australasian Med. Gaz.*, p. 79, Jan. 31, 1914.
- 49 VAN DER BOGERT, F. Influence of diet on growth and recurrence of adenoids. *N. Y. State Jour. of Med.*, June, 1914.

Neuroses.

- 50 ASCHMAN, G. A. Nasal reflex. *W. Va. Med. Jour.*, p. 395, June, 1914.
- 51 CASTEX, A. Traumatic anosmia. *Bull. d'oto-rhino-laryngol.*, p. 204, July, 1914.
- 52 DAVIS, E. F. Headache of nasal origin. *Okla. State Med. Assn. Jour.*, Oct., 1914.
- 53 EMMERICH, R. and LOEW, O. Calcium chlorid for hay-fever. *Muench. med. Wchnschr.*, Feb. 17, 1914.
- *54 EMBRY-ROBERTS, E. Alterations in the blood occurring in hay-fever. *Brit. Med. Jour.*, p. 1176, May 30, 1914.
- §55 FREEMAN, J. Vaccination against hay-fever. *Lancet*, April 25, 1914; *THE LARYNGOSCOPE*, p. 791, Sept., 1914.
- *56 GOODALE, J. L. Anaphylactic skin reactions excited in hay-fever subjects by pollen of various species of plants. *Boston Med and Surg. Jour.*, p. 695, Nov. 5, 1914.

- 57 HOFFMANN, R. Treatment of hay-fever by Calcium chlorid. (Behandlung des Heufiebers durch lange fortgesetzte Chlorkalziumzufuhr). *Muench. med. Wchnsch.*, p. 190, 1914.
- 58 KOESSLER, K. K. Specific treatment of hay-fever by active immunization. *Ill. Med. Jour.*, Aug., 1914.
- 59 LOVELL, A. G. H. Hay-fever. *Practioner*, Feb., 1914.
- 60 LOWDERMILK, R. C. Hay-fever. *Jour. A. M. A.*, p. 141, July 11, 1914.
- 61 RAOULT, A. Neuralgia and migraine of nasal and otitic origin. *Rev. hebdom. de Laryngol.*, p. 65, July 18, 1914.
- 62 RICE, G. B. Consideration of some of the neurotic conditions of the nose and throat. *Jour. of Ophthal. Otol. and Laryngol.*, p. 412, Sept., 1914.
- §63 ROBERTS, E. E. Alterations in the blood in hay-fever. *Brit. Med. Jour.*, May 30, 1914; *THE LARYNGOSCOPE*, p. 825, Sept., 1914.
- 64 SMITH, D. G. Hay-fever. *Wash. Med. Ann.*, Sept., 1914.
- 65 ULRICH, H. L. Some notes on hay-fever. *Jour. A. M. A.*, p. 1220, April 18, 1914.

Neoplasms (Nasal).

- 66 ALAGNA, G. Nasal deformities due to mucous polypi. *Arch. intern. de Laryngol.*, p. 445, March-April, 1914.
- 67 ALEXANDER, L. D. Adeno-carcinoma of the nose; chronologic review and case report. *Ann. of Otol.*, p. 97, March, 1914.
- *68 BAILLA, A. Edematous fibroma of the nasal fossae. *Arch. ital. di Otol.*, No. 2, p. 131, 1914.
- 69 CLAIR, J. E. Mucous polypi of the nasal fossae. Pathogenesis and treatment. *These de Paris*, 1914.
- 70 DELLA CIOPPA, A. The co-existence of tumors of different structure in the nose. *Giorn. Med. del R. Esercito*, May, 1914.
- 71 FERRERI, G. Treatment and prognosis of malignant tumors of the nasal fossae and hypopharynx. *Arch. intern. de Laryngol.*, Jan.-April, 1914.
- 72 LAURENS, G. Mucous polypus in nose of child of 3 weeks. *Bull. d'oto-rhino-laryngol.*, p. 7, Jan., 1914.
- 73 MCSWAIN, I. A. Nasal polypi. *Tenn. State Med. Assn. Jour.*, Jan., 1914.
- 74 NELSON, R. B. Nasal polypi. *Tenn. State Med. Assn. Jour.*, Feb., 1914.
- 75 ORELUP, C. E. Nasal polypus. *Okla. State Med. Assn. Jour.*, Feb., 1914.

Neoplasms (Naso-pharyngeal).

- 76 BROWN, J. E. Two cases of extensive fibro-myxoma of the naso-pharynx. *Ann. of Otol.*, p. 874 Dec., 1914.
- 77 CAGNOLA. Method of removing naso-pharyngeal fibroma. *L'Osped. Mag.*, No. 3, 1914.
- 78 FEIN, J. Case of chronic inflammatory tumor in naso-pharynx. *Monatschr. f. Ohrenh.*, Heft 4, p. 481, 1914.

- 79 INGALS, E. F. Naso-pharyngeal myxo-sarcoma; several operations and final spontaneous recovery under observation for twenty-seven years. *Ann. of Otol.*, p. 373, June, 1914.
- 80 MARSCHIK, H. Pathology and diagnosis of malignant growths in the nose and naso-pharynx, including naso-pharyngeal fibroma. *Passows Beitr.*, Bd. 7, Heft 4-5, p. 327, 1914.
- 81 MOURE and CANUPT. Naso-pharyngeal polypus. *Gaz. hebdom. des Sci. Med. de Bordeaux*, Jan. 25, 1914; and *Jour. de Med. de Bordeaux*, May 24, 1914.
- 82 MOURE, E. J. and CANUPT, G. Polyp in naso-pharynx. *Rev. de Chir.*, p. 721, June, 1914.
- 83 MUELLER, B. Pathogenesis and therapy of naso-pharyngeal fibroma. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 145, 1914.
- 84 OTCHKINE, A. Case of myeloma of the naso-pharynx. *Vratch. Gaz.*, Jan., 1914.
- §85 POUGET, R. J. Case of dermoid polypus of pharynx. *Rev. hebdom. de Laryngol.*, p. 577, May 16, 1914; *THE LARYNGOSCOPE*, p. 968, Dec., 1914.
- 86 SCHULZ, A. Treatment of juvenile naso-pharyngeal fibroma. *Ztschr. f. Laryngol.*, Bd. 6, Heft 6, p. 845, 1914.

General.

- §87 ARMENGAUD. Treatment of ozena by sulphurous thermal water. (Traitement de l'ozene par les eaux sulfureuses thermales). *Rev. hebdom. de Laryngol.*, p. 282, March 7, 1914; *THE LARYNGOSCOPE*, p. 502, May, 1914.
- 88 AXISA, E. Secretion in true ozena. *Monatschr. f. Ohrenh.*, Heft 6, p. 753, 1914.
- †89 BALDWIN, K. W. Violet ray and ozone of use in nose, throat and ear conditions. *THE LARYNGOSCOPE*, p. 42, Jan., 1914.
- 90 BARTH, E. Preparation of blood platelets for hemostasis in operating on the nose. *Deut. med. Wchnschr.*, July 30, 1914.
- 91 BEAL. Hypertrophic rhinitis considered as a symptom of general affections. *Bull. d'oto-rhino-laryngol.*, p. 230, July, 1914.
- 92 BECK, J. C. Histologic pathology of the nose. *Ann. of Otol.*, p. 790, Dec., 1914.
- 93 BECKER, F. Ozena in those subject to military service. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 286, 1914.
- 94 BILANCIONI. Nasal therapy. (Appunti di terapia nasale). *Boll. delle Mal. dell'Orecchio*, p. 97, May, 1914.
- 95 BILANCIONI, G. Studies in naso-pharyngeal stenosis. (Lo studio dei palatogrammi nelle stenosi naso-faringee). *Arch. ital. de Otol.*, p. 344, Sept., 1914.
- 96 BLAIR, E. G. Dactylocostal (osseous and cartilaginous) rhinoplasty. *Surg. Gynecol. and Obstetr.*, p. 718, Dec., 1914.
- 97 BLOCH, M. Syphilis of the nose. *Bull. d'oto-rhino-laryngol.*, p. 233, July, 1914.
- 98 BLUMENTHAL, A. Swelling in the vicinity of the nose with nasal affection. *Med. Klinik*, May 24, 1914.
- 99 BOLTON, J. S. Nasal disease as a cause of spinal sclerosis. *Brit. Med. Jour.*, p. 914. April 25, 1914.

- 100 BONNIER. Nasal centro-therapy. *Arch. intern. de Laryngol.*, Jan.-June, 1914.
- 101 BORDEN, C. R. C. Latent and tertiary syphilis in diseases of the nose and throat. *Jour. A. M. A.*, p. 1563, Oct. 31, 1914.
- 102 BOURGUET. Operations on the lacrimal sac by the 'endo-nasal route. *Ann. des Mal. de l'Oreille*, No. 5, p. 522, 1914.
- 103 BROECKAERT. New rhino-plastic method. *Le Larynx*, Feb., 1914.
- §104 BRYANT, W. S. Involution of the naso-pharynx and its clinical importance. *Am. Jour. Med. Sci.*, p. 61, July, 1914; *THE LARYNGOSCOPE*, p. 797, Sept., 1914.
- 105 BUCKLIN, C. A. Surgical treatment for reduction of vacuum caused by nasal obstructions. *Med. Rec.*, p. 834, May 9, 1914.
- 106 BURNET, G. Cure of atrophic rhinitis. *Brit. Med. Jour.*, p. 860, April 18, 1914.
- 107 BUTT, W. R. Infection of nasal cavity from diseased tooth-root. Specimen showing pathway of infection through the maxillary sinus. *Jour. A. M. A.*, p. 549, Aug. 15, 1914.
- 108 CALDERA, C. Tuberculin reaction in ozena. (La reazione tubercolinica negli ozenatosi). *Arch. ital. di Otol.*, No. 1, p. 55, 1914.
- 109 CAMPOS, E. Operation on the lacrimal duct. *Barzil-Med.*, p. 259, July 15, 1914.
- 110 CARTER, W. W. Correction of nasal deformities by mechanical replacement and transplantation of bone. *N. Y. State Jour of Med.*, p. 513, Nov., 1914.
- *111 CARTER, W. W. Operations for the correction of deformities of the nose. *Med. Rec.*, p. 237, Feb. 7, 1914.
- 112 CHATELIN, C. Hereditary malformation of chin and nose with exophthalmos and strabismus. *Ann. de Med.*, July, 1914.
- 113 CHAVANNE, F. The nose and occupational accidents. *Presse Oto-Laryngol. Belge*, No. 2, p. 84, 1914.
- 114 CHORONSHITZKY, B. Peri-canalicular piercing through lacrimal sac as preparation for intra-nasal opening of lacrimal sac and as an independent operation. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 363, 1914.
- 115 CHRISTOPHERSON, J. B. Case of naso-oral Leishmaniasis and case of Oriental sore, both originating in Anglo-Egyptian Sudan. *Ann. of Trop. Med. and Parasitol.*, Dec., 1914.
- 116 COHN, J. Inflation of nose in a case of tuberculosis of the mucosa. *Monatschr. f. Ohrenh.*, Heft 9, p. 1169, 1914.
- †117 COHEN, L. Corrective rhinoplasty. *THE LARYNGOSCOPE*, p. 565, June, 1914.
- 118 COLEMAN, J. Nasal tuberculosis. *Med. Rec.*, p. 147, Jan. 23, 1915.
- 119 CORREA, J. C. Present status of treatment of ozena. *Semana Med.*, Vol. 21, 15-18, 1914.
- 120 CRANE, C. G. Hereditary syphilis of the nose and throat. *L. Island Med. Jour.*, Aug., 1914.
- 121 DAVIES, D. L. Modern treatment of lacrimal obstruction. *Lancet*, Jan. 3, 1914.
- 122 DENIS, M. and VACHER, L. Case of osteoma of the nasal fossae. *Bull. d'oto-rhino-laryngol.*, p. 230, July, 1914.

- 123 DIEBOLD, F. Causes of hypertrophy and atrophy of the nasal mucosa. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 441, 1914.
- 124 DUBREUILH. Syphilitic chancre of the nose; inoculation through a bite. *Gaz. hebdomadaire des Sci. med. de Bordeaux*, Jan. 18, 1914.
- 125 DUPONT, L. A method to straighten the ridge of the nose. (Un procede de redressement de la crete du nez). *Rev. hebdomadaire de Laryngol.*, p. 105, Jan. 24, 1914.
- 126 DUVAL, A. Epistaxis and its treatment. *Bull. d'oto-rhino-laryngol.*, p. 51, Jan., 1914.
- *127 DUVERGER, J. International investigation on ozena. *Rev. hebdomadaire de Laryngol.*, p. 481, April 25, 1914; *THE LARYNGOSCOPE*, p. 599, June, 1914.
- 128 EAGON, S. E. Acute rhinitis. *Elec. Med. Jour.*, p. 19, Jan., 1914.
- 129 EWING, A. E. and SLUDER, G. Abducens palsy following nasal trauma and nasal infection. *Am. Jour. of Ophth.*, Dec., 1914.
- *130 FEIN, J. Paraffin injection in saddle nose and ozena. *Wchnschr.*, Vol. 64, p. 929, 1914.
- 131 FELIX, E. Fatalities following intra-nasal interventions. *Arch. intern de Laryngol.*, p. 58, Jan.-Feb., 1914.
- 132 FERRERI, G. External or internal dacryocystorhinostomy. *Arch. ital. di Otol.*, No. 1, p. 18, 1914.
- 133 FERREIRA, A. Gelatine tampon after operations on the nose. *Semana Med.*, May 7, 1914.
- 134 FEERY, N. S. Study of bacteriology of the posterior naso-pharynx in scarlatina. *Med. Rec.*, p. 934, May 23, 1914.
- 135 FORAMITTI, K. Nasal plastic. *Wchnschr.*, No. 5, 1914.
- *136 FORDYCE, A. D. and CARMICHAEL, E. W. S. Naso-pharyngeal and cervical glandular tuberculosis in children. *Lancet*, Jan. 3, 1914.
- 137 FOSTER, H. A. Early treatment of fractures of the nasal bones. *Jour. of Ophth. Otol. and Laryngol.*, p. 120, March, 1914.
- 138 FOY, R. How to treat the different classes of ozena. *Bull. d'oto-rhino-laryngol.*, p. 236, July, 1914.
- 139 FREUDENTHAL, W. Why is nasal catarrh so prevalent in the United States? *N. Y. Med. Jour.*, p. 1, Jan. 3, 1914.
- 140 FRIEDRICH. Epidemiology of rhinoscleroma. *Deut. med. Wchnschr.*, Jan. 8, 1914.
- 141 FRUEHWALD, V. Case of angioma of the ala nasi. *Monatschr. f. Ohrenh.*, Heft 10, p. 1201, 1914.
- 142 GARBINI, G. and LA ROSA, G. Etiology of ozena. *Arch. ital. di Otol.*, No. 6, p. 486, 1914.
- *143 GERBER, P. Histology of mucosal lupus. *Arch. f. Laryngol.*, Bd. 29, Heft 1, 1914.
- 144 GLEASON, E. B. Conservative treatment of intra-nasal disease. *Jour. Ophth. Otol. and Laryngol.*, p. 438, Oct., 1914.
- 145 GOEDING, R. Anatomic development of ethmoidal portion of the lateral nasal wall during the first years of childhood. *Monograph, Cristiana*, 1914.
- 146 GOERKE, M. Intra-nasal operations on the lacrimal passages. *Berl. klin. Wchnschr.*, May 4, 1914.
- 147 GOYANES. Dilatation of nasal cavity by Partsch's method. (Breite Eroeffnung der Nasenhohle mit der Methode von Partsch). *Rev. espanola de Laringol.*, Jan.-Feb., 1914.

- 148 GRADENIGO, G. International investigation on ozena. (Inchiesta internazionale sull' ozena). *Arch. ital. di Otol.*, No. 1, p. 1, 1914.
- 149 GREEN, L. D. Recent advances in the treatment of dacryostenosis. *Jour. Ophth. and Oto-Laryngol.*, p. 383, Dec., 1914.
- 150 GREEN, L. D. Intra-nasal operation for dacryostenosis with case histories. *Cal. State Jour. of Med.*, p. 423, Oct., 1914.
- 151 GUTTMAN, J. Hydrorrhea nasalis, a case apparently cured. *N. Y. Med. Jour.*, p. 1087, May 30, 1914.
- 152 HAENISCH, H. Technical remarks on Levinstein's work on "Duck-bill" nose following submucous resection. *Ztschr. f. Laryngol.*, Bd. 7, Heft 3, p. 346, 1914.
- 153 HALLE. Intra-nasal operation on the lacrimal apparatus. *Arch. f. Laryngol.*, Bd. 28, Heft 2, 1914.
- 154 HALSTED, T. H. Endo-nasal operation on tumor of hypophysis. Report of case in child 9 years of age. *Trans. Am. Laryngol. Ass'n.*, p. 220, 1914.
- 155 HALSTED, T. H. Intra-nasal operation in tumor of the hypophysis. Report of a case in a child 9 years of age. *N. Y. Med. Jour.*, p. 872, Oct. 31, 1914.
- 156 HAMM. Diathermia treatment of ozena. *Monatschr. f. Ohren.*, No. 7, p. 988, 1914.
- 157 HARMER, W. D. Diathermy in the treatment of inoperable growths of the nose and throat. *Jour. of Laryngol.*, p. 481, Oct., 1914.
- 158 HARRIS, H. B. Atrophic rhinitis with ozena; etiology and surgical treatment. *O. State Med. Jour.*, Oct., 1914.
- 159 HAYS, H. Epistaxis as an expression of systemic disease. *Arch. of Diag.*, Jan., 1914.
- *160 HEINECK, A. P. Case of rhinophyma successfully treated by "decortication." *Jour. A. M. A.*, p. 105, Jan. 10, 1914.
- 161 HERZIG, A. J. Quinin and urea hydrochlorid in nose and throat surgery. *N. Y. Med. Jour.*, p. 529, March 14, 1914.
- 162 HILL, W. Treatment of inoperable growths of the nose and throat by radium. *Jour. of Laryngol.*, p. 487, Oct., 1914.
- *163 HOFER, G. Question of the etiology of genuine ozena. *Univ. Med. Rec.*, Vol. 5, p. 11, 1914.
- 164 HOFER, G. and KOFER, K. Further remarks on the treatment of true ozena with coccobacillus foetidus ozaenae Perez vaccine. *Arch. f. Laryngol.*, Bd. 29, Heft 1, p. 1, 1914.
- 165 HOFFMANN, R. Dacryocystorhinostomy. *Monatschr. f. Ohrenh.*, No. 7, p. 985, 1914.
- 166 HOLMES, E. M. Intra-nasal operation for the relief of naso-lacrimal stenosis. *Ann. of Otol.*, p. 286, June, 1914.
- 167 JACOBSON, A. S. Importance of examination and treatment of nose and throat in lupus of the face. *Nederlandsch. Tijdschr. v. Geneesk.*, March 21, 1914.
- 168 JACOBSON, A. S. Lupus of nose and throat. *Nederl. Tijdschr. v. Geneesk.*, Vol. 63, No. 12, 1914.
- 169 JOSEPH, B. Rhinolith of several years' duration in a child of 8 years. *N. Y. Med. Jour.*, p. 673, Oct. 17, 1914.
- 170 JOSEPH, J. Restoration of nose. *Muench. med. Wchnschr.*, March 3, 1914.

- 171 KAEMPFER, L. G. Salvarsan in rhinoscleroma. *N. Y. Med. Jour.*, p. 636, March 28, 1914.
- 172 KAHN, H. Short study in the etiology of nasal hydrorrhea, with case reports. *Jour. Mo. State Med. Assn.*, p. 209, Feb., 1914; and *Ann. of Otol.*, p. 184, March, 1914.
- 173 KELLY, A. B. International collective investigation on ozena (third notice). *Jour. of Laryngol.*, p. 255, May, 1914.
- 174 KENYON, E. L. Safe and effective method of nasal and naso-pharyngeal douching. *Jour. A. M. A.*, p. 1398, May 2, 1914.
- 175 KOCH, E. Gravity of secondary infection in syphilitic rhinitis neonatorum. *Monatschr. f. Kinderh.*, Vol. 13, No. 6, 1914.
- 176 KOCH, F. Correction of form of nose without cicatrization. *Arch. intern. de Laryngol.*, p. 49, Jan.-Feb., 1914.
- 177 KOFLER, K. Noviform gauze in rhinology. *Monatschr. f. Ohrenh.*, Heft 3, p. 426, 1914.
- 178 KOFLER, K. Operation on side wall of nose through window in septum. *Wr. klin. Wchnschr.*, p. 1227, Aug. 20, 1914.
- 179 KRUSE, W. Etiology of coryza. *Muench. med. Woch.*, Vol. 61, No. 28, 1914.
- 180 LAVRAND, H. Olfaction in ozena. *Rev. hebdom. de Laryngol.*, p. 97, July 25, 1914.
- 181 LEALE, G. New method of posterior tamponage of the nasal fossa. *Boll. delle Mal. dell'Orecchio*, p. 73, April, 1914.
- 182 LEVI, W. D. Epistaxis. *Ky. Med. Jour.*, Oct. 15, 1914.
- †183 LEWIS, F. O. Use of bacterins in the treatment of diseases of the nose and throat. *THE LARYNGOSCOPE*, p. 673, July, 1914.
- 184 LEWIS, W. W. Dry nose. Post-operative atrophy. *St. Paul Med. Jour.*, p. 105, Jan., 1914.
- 185 LOCKARD, L. B. Chronic influenza of the nose and throat. *Ann. of Otol.*, p. 323, June, 1914.
- §186 LOTHROP, O. A. Operation for correcting aquiline nasal deformity. *Boston Med. and Surg. Jour.*, May 28, 1914; *THE LARYNGOSCOPE*, p. 87, Feb., 1915.
- §187 LOTHROP, O. A. Use of section of scapula in correcting nasal deformity. *Boston Med. and Surg. Jour.*, p. 303, Aug. 20, 1914; *THE LARYNGOSCOPE*, p. 331, June, 1915.
- 188 LOEWENSTEIN, O. Dacryocystorhinostomy by Toti's method, or opening the lacrimal sac by the West-Polyak method. *Prag. med. Woch.*, No. 38, 1914.
- 189 MACKENZIE, G. W. Preliminary report of three cases treated recently with nux vomica. *Jour. Ophth. Otol. and Laryngol.*, p. 133, March, 1914.
- 190 MAGER. Rhinoscleroma in Moravia. *Wr. klin. Wchnschr.*, No. 25, 1914.
- 191 MAHLER, L. International inquiry on ozena. *Tidskr. f. Dansk Skolehygiene*, Jan., 1914.
- *192 MARX, H. Bacteriology of the nose. *Ztschr. f. Ohrenh.*, Bd. 72, Heft 1, p. 37, 1914.
- 193 MAYER, E. Intra-nasal treatment of dysmenorrhea. *Jour. A. M. A.*, p. 6, Jan. 3, 1914.

- 194 MAYER, K. Auscultation of the heart sounds through the nose and mouth. *Wr. klin. Wchnschr.*, April 30, 1914.
- 195 MAURICE, A. Simple method of using iodine vapor in nose, throat and ear practice. *Arch. gen. de Med.*, Feb., 1914.
- 196 MCCAMBRIDGE, J. E. Nasal obstruction as predisposing factor in etiology of pulmonary tuberculosis. *N. Y. State Jour. of Med.*, Jan., 1914.
- 197 MCGILLIVRAY, J. Chronic dacryocystitis; the intra-nasal operation with case report. *West. Med. News*, Nov., 1914.
- 198 MCGILLIVRAY, J. Chronic dacryocystitis; the intra-nasal operation. *Can. Lancet*, p. 28, Sept., 1914.
- 199 MCHENRY, D. D. Experience with Holmes' naso-pharyngoscope. *Okla. State Med. Assn. Jour.*, p. 321, Jan., 1914.
- 200 MECHTERSKEY, G. Treatment of rhinoscleroma. *Vratch. Gaz.*, Jan. 5, 1914.
- 201 MESTSCHERSKI, H. and GRINTSCHER, F. Roentgenotherapy of rhinoscleroma. *Berl. klin. Wchnschr.*, March 16, 1914.
- 202 MILLER, F. E. Local anesthesia, and throat and nose suturing. *Jour. Ophth. Otol. and Laryngol.*, p. 36, Jan., 1914.
- 203 MINK, P. J. Anatomy of the nose. *Nederl. Tijdschr. v. Geneesk.*, June 20, 1914.
- 204 MOLINIE. Ozena and the esthetic. *Le Larynx*, No. 3, 1914.
- 205 MOSSE. Two cases of mutilating nasal syphilis treated with intravenous injections of salvarsan and neo-salvarsan. *Bull. d'oto-rhinolaryngol.*, p. 228, July, 1914.
- 206 NABARRO, D. and HIGGINS, T. T. Obscure case of ulceration of nose in child simulating an epithelioma. *Brit. Jour. of Surg.*, April, 1914.
- 207 NAGLE, F. O. Case of hypophysis tumor. *Jour. Ophthal. Otol. and Laryngol.*, p. 507, Nov., 1914.
- 208 NATIER, M. Ozena, denutrition, respiration and adenoids (new etiological consideration). *Trans. Am. Laryngol. Assn.*, p. 248, 1914.
- 209 NORDMANN, O. Technic for Thiersch flaps. *Med. Klinik*, Oct. 25, 1914.
- 210 ONODI, A. Complications of nasal disease. *Med. Klinik*, April 26, 1914.
- 211 ONODI, A. Contra-lateral visual disturbances of nasal origin. *Ztschr. f. Augenh.*, April-May, 1914.
- 212 ONODI, A. Post-operative visual disturbances in blindness of nasal origin. *Ztschr. f. Augenh.*, March, 1914.
- 213 PAGE, H. M. Intra-pharyngeal administration of warmed ether vapor by nasal route. *Lancet*, July 18, 1914.
- 214 PACHOFOS, G. Treatment of ozena. *Rev. hebdom. de Laryngol.*, p. 103, July 25, 1914.
- ‡215 PASQUIER. Case of ozena in a nursing. *Jour. de Med. de Paris*, March 7, 1914; *THE LARYNGOSCOPE*, p. 717, Aug., 1914.
- *216 PATERSON, D. R. Intra-nasal treatment of lacrimal disease. *Jour. of Laryngol.*, p. 169, April, 1914.
- 217 PETRY, H. Nosebleed in children. *Berl. klin. Wchnschr.*, Dec. 7, 1914.
- †218 PFINGST, A. O. Case of complete bilateral bony occlusion of both nasal choanae. *THE LARYNGOSCOPE*, p. 179, March, 1914.

- 219 PILCHER, J. D. Absorption of epinephrin from the nasal submucosa. *Jour. A. M. A.*, p. 209, July 18, 1914.
- 220 POLYAK, L. Intra-nasal dacryocystostomy. *Verh. des koeingl. Aerztevereins in Budapest*, No. 2, 1914.
- 221 PORTER, W. G. Case of post-operative osteomyelitis of frontal bone. *Lancet*, Jan. 31, 1914.
- 222 PRENN, J. Syphilis of nose. *Boston Med. and Surg. Jour.*, Aug. 20, 1914.
- 223 PROSKAUER, A. Melanotic cells in nasal mucosa. *Berl. klin. Wchnschr.*, Feb. 9, 1914.
- 224 RANDALL, B. A. Too optimistic rhinology. *Trans. Ann. Laryngol. Assn.*, p. 245, 1914.
- §225 RENE-CELLES. Angiomata of alae nasi. *Rev. hebdomadaire de Laryngol.*, p. 417, April 11, 1914; *THE LARYNGOSCOPE*, p. 507, May, 1914.
- 226 RICHARDSON, C. W. Congenital atresia of the post-nasal orifice. *Lancet*, Aug. 15, 1914.
- 227 RIZZI, M. J. Retrograde curetting of nasal passages. *Sem. Med.*, Jan. 22, 1914.
- 228 SAFRANEK, J. Etiology and vaccine therapy of true ozena. *Med. Klinik*, July 26, 1914.
- 229 SALOMON, O. Artificial nose. *Med. Klinik*, Feb. 8, 1914.
- 230 SCHULTZ, W. F. A. Nasal obstruction or obstructed breathing; the remedy. *Med. Fortnightly*, p. 163, May 11, 1914.
- *231 SCHWARTZ, A. I. Effective method to prevent post-operative nasal hemorrhages. *N. Y. Med. Jour.*, Oct. 31, 1914.
- 232 SLANEY, C. N. Multiple round-celled sarcoma originating in nares. *Lancet*, Oct. 17, 1914.
- 233 SMITH, H. Correction of nasal deformities by the injection of paraffin. *N. Y. State Jour. of Med.*, Sept., 1914.
- 234 SOBOTKY, I. Note on nasal synechia. *Am. Jour. of Surg.*, p. 180, May, 1914.
- *235 SPROULE, J. S. Necessity for the routine examination of the nose and throat. *Can. Jour. of Med. and Surg.*, Jan., 1914.
- 236 STANZIALE, R. Production of antibodies in animals treated with the bacillus of rhinoscleroma. *Rif. Med.*, p. 309, March 31, 1914.
- 237 STREBEL, J. Traumatic anosmia and enophthalmos. *Deut. med. Wchnschr.*, Nov. 12, 1914.
- 238 TAPTAS, N. Radical treatment by the endo-nasal route of chronic suppurative dacryocystitis. *Ann. des Mal. de l'Oreille*, p. 1, No. 1, 1914.
- *239 THEISEN, C. F. and FROM, M. N. K. Use of normal horse serum for the prevention of hemorrhage in nose and throat operations. *Albany, Med. Ann.*, p. 550, Oct., 1914.
- 240 THOMPSON, J. A. Combined dental and nasal treatment to restore normal nasal respiration. *O. State Med. Jour.*, p. 69, Feb., 1914.
- †241 THOMPSON, J. A. Uncommon case of nasal hemorrhage. *THE LARYNGOSCOPE*, p. 889, Oct., 1914.
- 242 TIRUMURTI, T. S. Rhinosporidium Kinealyi. *Practitioner*, Nov., 1914.
- 243 TRETROP. Rational treatment of narrow nasal respiratory fossae. *Rev. hebdomadaire de Laryngol.*, p. 129, Aug. 1, 1914.

- 244 TUNNICLIFF, R. Pleomorphic branching organism isolated from case of chronic rhinitis. *Jour. Infect. Dis.*, Sept., 1914.
- §245 VAILLANCOURT, J. Transplantation of cartilage in a case of nasal deformity. *Bull. med. de Quebec*, Jan., 1914; *THE LARYNGOSCOPE*, p. 369, June, 1915.
- 246 VIANNA, G. Treatment of ozena by intravenous injections of tartar emetic. *Brazil Med.*, p. 143, April 15, 1914.
- 247 WALES, E. DE W. Cauterization of mucous membranes, particularly of the nasal—a protest. *Ann. of Otol.*, p. 563, Sept., 1914.
- *248 WESTMACOTT, F. H. Oculo-motor paralysis of otitic origin. *Jour. of Laryngol.*, p. 449, Sept., 1914; and *Lancet*, Nov. 14, 1914.
- 249 WIENER, M. and SAUER, W. E. Dacryocystitis caused by membranous closure of nasal duct. *Ann. of Ophthal.*, July, 1914; and *Jour. Mo. State Med. Soc.*, p. 227, Nov., 1914.
- 250 WILLIAMS, P. W. Note on the technic of the intra-nasal operation for antral sinus suppuration. *Jour. of Laryngol.* p. 113, March, 1914.
- 251 WINKLER. Use of noviform in rhinology. *Fortschr. d. Med.*, No. 19, 1914.
- †252 WOOD, W. C. Atrophic rhinitis, treatment with scarlet red. *THE LARYNGOSCOPE*, p. 503, May, 1914.
- 253 WOOD, J. W. Use of naso-pharyngoscope in oto-rhinology. *Practitioner*, June, 1914.
- 254 WOTZILKA, G. Impeded breathing through nose and pulmonary tuberculosis. *Med. Klinik*, May 31, 1914.
- 255 YEARSLEY, M. Points in examination of nose and treatment of its common disorders. *Practitioner*, Oct., 1914.
- 256 ZEMANN, W. Anatomical relation of position of lacrimal sac and nose. Method of determining position of lacrimal sac on lateral nasa. wall. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 378, 1914.

II. MOUTH AND PHARYNX.

Palate.

- 257 ALAGNA, G. Case of mixed tumor of the movable soft palate (lipoma myxomatousum). Histo-pathological and histo-chemical examinations. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 179, 1914.
- 258 BARGE, J. A. J. Present status of our knowledge in regard to hare-lip and similar deformities. *Ned. Tijdschr. v. Geneesk.*, Vol. 2, No. 16, 1914.
- 259 BLAKEWAY, H. Treatment of hare-lip and cleft-palate. *Practitioner*, Feb., 1914.
- 260 BROWN, G. V. I. Principles which govern ultimate results of hare-lip and cleft-palate operations. *Lancet*, Sept. 12, 1914.
- §261 BROWN, G. V. I. Surgical treatment of post-operative palate defects. *Jour. A. M. A.*, p. 1539, May 16, 1914; *THE LARYNGOSCOPE*, p. 976, Dec., 1914.
- 262 CARMODY, T. E. Cleft-palate. *Colo. Med.*, March, 1914.
- 263 DRACHTER, R. The correction of cleft-palate. *Zentrbl. f. Chir.*, p. 497, March 21, 1914; *Munch. med. Woch.*, July 21, 1914.

- 264 DRACHTER, R. Operative treatment of cleft-palate. *Deut. Ztschr. f. Chir.*, p. 1, Aug., 1914.
- 265 DROUOT, E. Hare-lip, palatal and velar fissures. Orthophonic post-operative treatment. *Arch. intern. de Laryngol.*, March-June, 1914.
- 266 EASTMAN, J. R. Factors of safety in cleft-palate surgery. *Lancet*, Aug. 1, 1914.
- 267 ESCAT, E. Epithelioma of palate recessus. *Rev. hebdom. de Laryngol.*, p. 33, July 11, 1914.
- 268 FARR, R. E. Management of hare-lip and cleft-palate cases. *Jour. Lancet*, Sept. 15, 1914.
- §269 GUTHRIE, T. Tumor of the soft palate consisting mainly of salivary gland tissue. *Jour. of Laryngol. Rhinol. and Otol.*, p. 68, Feb., 1914; *THE LARYNGOSCOPE*, p. 93, Feb., 1915.
- 270 HETTRICH. Palato-pharyngeal paralysis. *Inaug. Diss. Wuerzburg*, 1914.
- 271 KAERGER, E. Treatment of cleft-palate and hare-lip. *Arch. f. klin. Chir.*, Vol. 103, No. 2, p. 255, 1914.
- 272 MACKENTY, J. E. Operative treatment of cleft-palate. *Trans. Am. Laryngol. Assn.*, p. 273, 1914.
- 273 NEUMANN, W. Correction of cleft-palate. *Berl. klin. Wchnschr.*, Feb. 16, 1914.
- 274 PARTSCH, C. Temporary resection of the palate. *Berl. klin. Wchnschr.*, Jan. 19, 1914; and *Beitr. z. klin. Chir.*, May, 1914.
- 275 RIEGNER. Prothesis for treatment of cleft-palate. *Beitr. z. klin. Chir.*, May, 1914.
- 276 SCHOEMAKER, J. Technic for treatment of cleft-palate. *Zentralbl. f. Chir.*, Sept. 26, 1914.
- 277 SLUDER, G. Correlated action of the pharynx and soft palate and its effects upon post-nasal diagnosis. *Trans. Am. Laryngol. Assn.*, p. 142, 1914.
- 278 STOCEADA. Fascia palatina. *Policlin.*, No. 11, 1914.
- 279 STURGIS, M. G. Mixed-cell tumors of the soft palate. *Surg. Gynecol. and Obstetr.*, p. 456, April, 1914.
- 280 WILKINSON, O. Use of aluminum plates in cleft-palate operation. *Va. Med. Semi-Monthly*, p. 481, Jan. 9, 1914.

Tonsils.

- 281 AMERSBACH, K. Physiologic significance of tonsils. *Arch. f. Laryngol.*, Bd. 29, Heft 1, p. 59, 1914.
- 282 ARCHIBALD, A. Tonsillectomy in the treatment of chorea. *St. Paul Med. Jour.*, Nov., 1914.
- †283 BAKER, S. J. Hypertrophied tonsils and adenoid vegetations in public school-children in New York City. *THE LARYNGOSCOPE*, p. 143, Feb., 1914.
- 284 BARTH, E. Technic of operation for pharyngeal tonsil. *Arch. intern. de Laryngol.*, p. 350, March-April, 1914.
- 285 BARNES, H. A. Tonsils, faucial, lingual and pharyngeal, with some account of the posterior and lateral pharyngeal nodules. C. V. Mosby Co., St. Louis, 1914.

- 286 BECK, J. Evolution of the tonsil and adenoid operation and a description of the writer's method of procedure. *Surg. Gynecol. and Obstetr.*, p. 98, July, 1914.
- 287 BECO, L. Fibroma of the tonsil. *Presse Oto-Laryngol. Belge*, No. 2, p. 70, 1914.
- †288 BIEDERT, C. C. Affections of the lingual tonsil and their treatment. *THE LARYNGOSCOPE*, p. 885, Oct., 1914.
- †289 BLACK, W. D. Case reports. *THE LARYNGOSCOPE*, p. 149, Feb., 1914.
- *290 BLUMENTHAL, A. Pharyngeal tonsils. *Ztschr. f. Ohrenh.*, Bd., 71. Heft 1-2, p. 123, 1914.
- ‡291 BRAUER. Relation between acute and chronic tonsillitis. *Prag. med. Wchnschr.*, No. 7, 1914; *THE LARYNGOSCOPE*, p. 128, Feb., 1915.
- 292 BROCA, A., SALIN, H., and MONOD, R. Case of congenital, lateral fistula of neck with tonsillar stricture. *Arch. de med. experim.*, Jan., 1914.
- 293 BROWN, J. P. Hypertrophy of the faucial tonsil and its treatment. *Can. Med. Assn. Jour.*, p. 181, March, 1914.
- 294 BULLOCK, H. Method of enucleation of tonsils and removal of adenoids. *Med. Brief*, p. 15, Jan., 1914.
- 295 BURGER, H. Indications for tonsillotomy or tonsillectomy. *Nederl. Tijdschr. v. Geneesk.*, p. 1431, May 2, 1914.
- 296 BURKHARDT, C. F. Function of faucial tonsils and indications for their removal. *Ill. Med. Jour.*, Nov., 1914.
- 297 BURMEISTER, W. H. Protein poison of tonsil. *Jour. of Infect. Dis.*, Nov., 1914.
- *298 BURROUGHS, H. C. Diphtheritic tonsillitis. *Can. Lancet*, p. 658, May, 1914.
- *299 CALDERA, C. Case of angioma of the tonsil. *Arch. ital. di Otol.*, No. 2, p. 158, 1914.
- 300 CALVY, P. J. Treatment of peri-tonsillar abscess (quinsy). *Wis. Med. Jour.*, April, 1914.
- 301 CANESTRO, C. Hemostasis in tonsil operations. *Arch. intern. de Laryngol.*, p. 149, Jan.-Feb., 1914.
- †302 CARMODY, T. E. Histo-pathology of the faucial tonsil. *THE LARYNGOSCOPE*, p. 576, June, 1914; and *Colo. Med.*, July, 1914.
- †303 CHARLTON, C. C. Retro-pharyngeal abscess with rupture, asphyxiation and death following an acute attack of tonsillitis. *THE LARYNGOSCOPE*, p. 985, Dec., 1914.
- 304 COCKS, G. H. Results of tonsil operations on public school-children in New York City. *N. Y. Med. Jour.*, p. 113, Jan. 17, 1914.
- 305 COMROE, J. H. Use and abuse of the tonsils. *Jour. A. M. A.*, p. 1367, Oct. 17, 1914.
- 306 COTT, C. C. Inflammatory tonsillar disease and its cure. *Jour. Ophth. and Oto-Laryngol.*, p. 356, Nov., 1914.
- 307 DAVIS, D. J. Actinomyces-like granules in tonsils. *Jour. Infect. Dis.*, Jan., 1914.
- †308 DAVIS, J. L. Fixed sources of all hemorrhage from tonsillectomy and its absolute control. *THE LARYNGOSCOPE*, p. 161, March, 1914.
- 309 DICKIE, J. K. M. Immediate and remote effects of operations on the tonsil. *Jour. of Laryngol.*, p. 184, April, 1914.

- 310 DOULCET. Treatment of hemorrhage in tonsillar and adenoid growths. *Jour. de Med. de Paris*, Feb., 1914.
- §311 DUPUY, H. Death during tonsillectomy from reflex inhibition. *New Orleans Med. and Surg. Jour.*, Aug., 1914; *THE LARYNGOSCOPE*, p. 71, Feb. 1915.
- 312 DUPUY, H. Hemostasis during and following tonsillectomy. *South. Med. Jour.*, Feb., 1914.
- 313 EPSTEIN, J. Treatment of acute tonsillitis in children. *Pediatrics*, Feb., 1914.
- 314 FAWCETT, I. Present status of tonsil and adenoid surgery. *W. Va. Med. Jour.*, April, 1914.
- 315 FIFIELD, H. L. Hemorrhage after tonsil operation. *N. Am. Jour. of Homeopath.*, Sept., 1914.
- 316 FINZI, G. Calculus of tonsil. *Arch. ital. di Otol.*, No. 6, p. 486, 1914.
- 317 FINZI, G. Experimental research on the toxicity of tonsillar extract. *Arch. ital. di Otol.*, No. 6, p. 504, 1914.
- 318 FISCHER, L. Association of follicular tonsillitis with acute gastric fever. A clinical study. *Med. Rec.*, p. 873, Nov. 21, 1914.
- 319 FREER, O. T. Tonsil removal by knife dissection. *Ill. Med. Jour.*, Nov., 1914.
- 320 FRENCH, T. R. Tonsillotomy versus tonsillectomy. The importance of differential diagnosis in enlarged tonsils in children. *N. Y. Med. Jour.*, p. 1097, Dec. 5, 1914.
- 321 FRIEDRICH. Question of tonsillotomy and tonsillectomy. *Med. Klinik*, No. 5, 1914.
- *322 GARLAND, F. E. and GREENE, D. C. Hemorrhage following tonsillectomy. *Boston Med. and Surg. Jour.*, April 2, 1914.
- §323 GEZES, R. Rare case of exclusive localization of the fuso-spirillar symbiosis in lingual tonsil. (Sur un cas rare de localisation exclusive de la symbiose fuso-spirillaire au niveau de l'amygdale linguale [amygdalite linguale ulcero-membraneuse]). *Rev. hebdomadaire de Laryngol.*, p. 369, March 28, 1914; *THE LARYNGOSCOPE*, p. 605, June, 1914.
- 324 GILE, B. C. Removal of pair of tonsils of extraordinary size. *Pa. Med. Jour.*, Jan., 1914.
- 325 GLAS, E. Indications for tonsillectomy. *Med. Klinik*, June 14, 1914.
- 326 GOLDMANN, R. Lymphatic glands in chronic tonsillitis. *Monatschr. f. Ohrenh.*, Heft 1, p. 127, 1914.
- 327 GOODALE, J. L. Indications for and value of tonsillotomy and tonsillectomy. *Monatschr. f. Ohrenh.*, Heft 1, p. 106, 1914.
- 328 GOERKE, M. Tonsillectomy, its indications and results. *Arch. intern. de Laryngol.*, p. 679, May-June, 1914.
- 329 GRATIOT, H. B. Tonsils and adenoids in their relation to general systemic infections. *Iowa State Med. Soc. Jour.*, Dec., 1914.
- 330 GRAZIANI, V. Case of bilateral ulcerative tonsillar lympho-sarcoma. *Arch. ital. di Laringol.*, p. 109, July 15, 1914.
- 331 GRUENWALD, L. Typical variations in the palatal tonsils and tonsillar region. *Arch. f. Laringol.*, Bd. 28, Heft 2, p. 179, 1914.
- 332 GUNDELACH, C. A. Method of tonsillectomy by means of alveolar eminence of mandible. *Iowa State Med. Soc.*, p. 411, Jan., 1914.

- 333 GUTHRIE, T. Enucleation of the tonsil. *Liverpool Med. Chir. Jour.*, Jan., 1914.
- 334 HAMILTON, J. M. Tonsils—safeguard or menace. *Vt. Med. Monthly*, Aug., 1914.
- 335 HARKEN, C. R. Tonsil as an etiological factor. *Jour. Ophth. and Oto-Laryngol.*, p. 148, May, 1914.
- 336 HARRISON, W. J. Chronically enlarged tonsils and their treatment. *Brit. Med. Jour.*, p. 421, Feb. 21 1914.
- 337 HENKE, F. New experiment on the physiological significance of the tonsils. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 231, 1914.
- 338 HILL, W. and ELPHICK, G. J. F. On the minimizing of hemorrhage in extirpation of the tonsils and on the employment of the hemostatic guillotine. *Jour. of Laryngol.*, p. 545, Dec., 1914.
- 339 HITSCHLER, W. A. Not faucial but lingual tonsil. *Pa. Med. Jour.*, Aug., 1914.
- 340 HUNTINGTON, W. H. Tonsillectomy; its indications and choice of operation. *Wash. Med. Ann.*, May, 1914; and *Med. Rec.*, p. 286, Aug. 15, 1914.
- 341 HUTLER, F. Anatomy of tonsil region and technic for tonsillectomy. *Wr. klin. Wehnschr.*, April 30, 1914.
- 342 HYZLER, G. Two cases of succenturiate tonsil. *Arch. ital di Laringol.*, p. 99, July 15, 1914.
- 343 JENNINGS, J. E. Complete removal of the tonsil in its capsule (Sluder method) by means of a new tonsillotome. *Med. Fortnightly*, p. 56, Feb. 10, 1914.
- *344 KAEMPFER, L. G. Pharyngeal tonsil in the adult. *Med. Rec.*, p. 61, July 11, 1914.
- 345 KLATSCHKO, M. D. Proportion of white globules in tonsil and their diapedesis. *Arch. intern. de Laryngol.*, p. 464, March-April, 1914.
- 346 KYLE, J. J. Prevention of hemorrhage in tonsillectomy. *Jour. Ophth. and Oto-Laryngol.*, p. 224, July, 1914.
- 347 LAYTON, T. B. Tonsils and adenoids in children. *Lancet*, April 18, 1914.
- §348 LEVINGER. Treatment and prophylaxis of peri-tonsillar abscess. *Muench. med. Wehnschr.*, June 9, 1914. *THE LARYNGOSCOPE*, p. 900, Oct., 1914.
- 349 LEWY, A. Report and comments on twenty-six cases of tonsillectomy, two and a half years after operation. *Ann. of Otol.*, p. 592, Sept., 1914.
- 350 LUBMAN, M. The tonsil from a surgical point of view. *N. Y. Med. Jour.*, p. 469, Sept. 5, 1914.
- 351 LUC, H. Systematic suture of the palatal pillars as a preventive measure for hemorrhage, following tonsillectomy. *Bull. d'oto-rhino-laryngol.*, p. 193, July, 1914.
- 352 LUC, H. Tonsillectomy in adults. *Presse Med.*, p. 77, Jan. 28, 1914.
- 353 MATTHEWS, J. Surgery of the tonsil. *Trans. Montana State Med. Assn.*, July, 1914.
- 354 MCCURRY, W. T. Early recognition of diseased tonsils and adenoids. *Ark. State Med. Soc. Jour.*, Dec., 1914.
- 355 MILLER, F. E. Amygdalokelyphy. *Jour. Ophth. Otol. and Laryngol.*, p. 26, Jan., 1914.

- §356 MILLER, H. Pathological tonsil. *Jour. Ophth. and Oto-Laryngol.*, p. 79, March, 1914. *THE LARYNGOSCOPE*, p. 657, July, 1914.
- 357 MILLER, S. R. Koplik's spots on tonsils of a child found to be anaphylactic to egg-albumin. *Bull. Johns Hopkins Hosp.*, March, 1914.
- 358 MORGENSTERN, A. F. Concerning the tonsil. *Therap. Dig.*, p. 75, May, 1914.
- 359 NATHAN, D. Circum-tonsillar abscess, a case with fatal hemorrhage. *N. Y. Med. Jour.*, p. 24, July 4, 1914.
- 360 O'MALLEY, J. F. Hemorrhage in tonsil and adenoid operations. *Clin. Jour.*, p. 49, Jan. 28, 1914.
- 361 PROSKAUER, A. Pathology of peri-tonsillar abscess. *Med. Klinik*, Aug. 23, 1914.
- §362 PUGNAT, A. Case of acute hypertrophied tonsillar adenitis. *Rev. hebd. de Laryngol.*, p. 427, April 11, 1914; *THE LARYNGOSCOPE*, p. 599, June, 1914.
- 363 REYCRAFT, J. J. Tonsillitis. *Mich. State Med. Soc. Jour.*, April, 1914.
- 364 RICHARDS, G. L. Relation of tonsils, adenoids and other throat conditions to tuberculous cervical adenitis. *Boston Med. and Surg. Jour.*, Jan. 7, 1915.
- 365 RIDDELL, T. Kidney disease as a sequel of tonsillitis. *Miss. Med. Monthly*, Jan., 1914.
- †366 ROBERTS, W. H. Tonsillectomy in the upright position under ether. *THE LARYNGOSCOPE*, p. 132, Feb., 1914.
- 367 ROBINSON, B. Practical points in tonsillar infection. *Med. Rec.*, Nov. 7, 1914.
- §368 ROYET, G. Additional remarks on chronic lacunar tonsillitis. *Rev. hebd. de Laryngol.*, p. 246, Feb. 28, 1914; *THE LARYNGOSCOPE*, p. 586, June, 1914.
- 369 SANDELS, C. C. Gangrene of tonsils. Report of case. *Pa. Med. Jour.*, July, 1914.
- 370 SCHUETZ, H. Multiple myeloma with Bence-Jones albuminuria and metastasis in the right tonsil. *Deut. Arch. f. klin. Med.*, Vol. 113, Nos. 5-6, p. 1127, 1914.
- 371 SHAMBAUGH, G. E. Recognition of chronically infected faucial tonsils. *Ill. Med. Jour.*, Nov., 1914.
- 372 SHERRILL, J. G. Cancer of tonsil. *Ky. Med. Jour.*, Dec. 15, 1914.
- †373 SHURLY, B. R. Relation of the tonsil to thyroid disease. *THE LARYNGOSCOPE*, p. 929, Nov., 1914.
- 374 SMITH, A. J. Tonsils as a habitat of oval endamebas. Possibility of systemic complications of oval endamebiasis. *Jour. A. M. A.*, p. 1746, Nov. 14, 1914.
- 375 SMITH, C. M. Syphilis of tonsil. *Boston Med. and Surg. Jour.*, Sept. 3, 1914.
- 376 SMITH, H. Lympho-sarcoma involving the right tonsil, lateral pharyngeal wall soft palate and uvula. *N. Y. Med. Jour.*, p. 779, April 18, 1914.
- 377 STICKNEY, O. D. Tonsillar hemorrhage and its treatment. *Jour. Ophth. Otol. and Laryngol.*, p. 298, July, 1914.
- 378 STOLL, A. Recognition of metastatic tonsillar carcinoma. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 267, 1914.

- 379 TEDESKO. Importance of tonsillitis in respect to general diseases. *Klin. therap. Wchnschr.*, Jan. 26, 1914.
- 380 THOMPSON, C. Tonsils and adenoids. *Ga. Med. Ass'n. Jour.*, Jan., 1914.
- 381 TODD, H. C. Snare versus Sluder operation in tonsillectomy. *Jour. A. M. A.*, p. 674, Feb. 28, 1914.
- 382 VACHER, L. and DENIS, M. Total tonsillectomy and post-operative hemorrhage. *Ann. des Mal. de l'Oreille*, No. 6, p. 547, 1914.
- 383 VATTUONE, A. Alcoholic extract of beef tonsils alleged superior antigen for the Wassermann reaction. *Gaz. degli Osped. e delle Clin.*, Dec. 13, 1914.
- *384 VERDELET, L. Tonsillitis and appendicitis. *Gaz. hebdom. des Sci. Med. de Bordeaux*, April 19, 1914. *THE LARYNGOSCOPE*, p. 802, Sept., 1914.
- 385 WILLIS, B. C. Inflammatory pathology of tonsil. *South. Med. Jour.*, Sept., 1914.
- 386 WILSON, E. Hypertrophied tonsils. *Ky. Med. Jour.*, Jan. 1, 1914.
- 387 WILSON, N. L. Faucial tonsils as a gateway to general infections. *Jour. A. M. A.*, p. 1638, Nov. 7, 1914.
- §388 WINCKLER, E. Tonsillar operation in children. *Monatschr. f. Ohrenh.*, Heft 6, p. 776, 1914, and *Passow's Beitr.*, p. 450, July 16, 1914. *THE LARYNGOSCOPE*, p. 981, Dec., 1914.
- 389 WINGRAVE, W. Note on the histology of enucleated tonsils. *Jour. of Laryngol.*, p. 181, April, 1914.
- §390 WOOD, G. B. Tonsillar infection, preliminary report concerning the passage of anthrax bacilli through the tonsillar tissues as determined by experimental research. *Am. Jour. Med. Sci.*, p. 380, March, 1914. *THE LARYNGOSCOPE*, p. 147, March, 1915.
- 391 ZAHORSKY, J. Observations on the production of immunity by the tonsils and adenoids in children. *Jour. Mo. State Med. Ass'n.*, p. 255, Dec., 1914.

Tongue.

- 392 BLOODGOOD, J. C. Cancer of the tongue based on a study of over 100 cases. *Md. Med. Jour.*, Vol. 62, p. 105, 1914.
- *393 BROcq and PAUTRIER. Median lozenge-shaped glossitis of the dorsal surface of the tongue. *Ann. de Dermatol. et de Syph.*, Jan., 1914.
- †394 CARMODY, T. E. Tuberculosis of the parotid gland. *THE LARYNGOSCOPE*, p. 873, Oct., 1914.
- *395 COENEN, H. Hypernephroma at base of tongue in woman of 62 years. *Berl. klin. Wchnschr.*, Sept. 14, 1914.
- 396 DUVERGEY. Abnormal form of cancer of the tongue. *Gaz. hebdom. des Sci. Med. de Bordeaux*, Jan. 11, 1914.
- 397 FRAZER, T. Tongue and upper alimentary tract in pellagra. *Jour. A. M. A.*, p. 1151, April 11, 1914.
- 398 FULLE, G. B. C. Primary tuberculosis of the tongue. *Rif. Med.*, April 11, 1914.
- 399 GESSNER, H. B. Thyro-glossal cyst and fistula. Report of four cases. *South. Med. Jour.*, May, 1914.
- 400 HAHN, R. Acute simple and suppurative glossitis. *Arch. ital di Otol.*, No. 1, p. 57, 1914.

- 401 HAHN, R. Acute, simple and suppurative glossitis. *Arch. ital. di Otol.*, No. 2, p. 89, 1914.
- 402 JANNIN, L. Cause of "black tongue" still a mystery. *Jour de Med. de Bordeaux*, Vol. 85, Nos. 23-25, p. 38, 1914.
- 403 LEDOUX. Thyro-glossal fistulae. *Ann. de la Policlin. Centrl.*, p. 114, March, 1914.
- 404 LOEB, V. Acute parenchymatous glossitis. *Jour. A. M. A.*, p. 2020, Dec. 5, 1914.
- 405 MANNINI. Primary tuberculosis of the tongue. *Gaz. degli Osped.*, March 15, 1914.
- 406 MONTGOMERY, D. W. Lichen planus of tongue alone. *Jour. Cut. Dis.*, p. 481, July, 1914.
- 407 MYERS, B. Tongue chewing. *Brit. Jour. Children's Dis.*, March, 1914.
- 408 ROLLESTON, H. D. Persistent low arterial blood-pressure in carcinoma of tongue with amyloid disease. *Lancet*, Sept. 12, 1914.
- 409 SPENCER, W. G. Etiology and treatment of carcinoma of the tongue. *Brit. Med. Jour.*, p. 457, Sept. 12, 1914.
- 410 SPENCER, W. G. Thyreo-glossal tract. *Lancet*, Feb. 21, 1914.
- 411 STEARN, H. Sore tongue and gums as an early symptom of pernicious anemia. *Deut. med. Wchnschr.*, July 23, 1914.
- 412 TIETZ, A. Technic for operations on the tongue, throat and larynx. *Beitr. z. klin. Chir.*, Vol. 93, No. 3, 1914.
- 413 THIMBLE, W. B. Case of lingual tuberculosis (primary). *Jour. Cut. Disease*, March, 1914.
- *414 THIMBLE, W. B. Lingual tuberculosis,—(primary). *N. Y. Med. Jour.*, p. 467, March 7, 1914.
- 415 TROTTER, W. Prognosis in cancer of tongue. *Lancet*, Oct. 24, 1914.
- 416 VAN HOOK, W. Use of the tongue in plastics. *Chicago Med. Rec.*, Vol. 36, p. 478, 1914.
- 417 VAN LAIR, C. Lingual, hypertrophic angio-papillitis. *La Scalpel*, Jan. 4, 1914.
- 418 VERGE, A. 1. Hunterian chancre of the tongue. 2. Leprosy. *Australasian Med. Gaz.*, p. 272, March 28, 1914.
- 419 WAGNER, A. Tumors at base of tongue. *Deut. Ztschr. f. Chir.*, Nov., 1914.
- *420 WEINSTEIN, J. Tuberculosis of the tongue. *N. Y. Med. Jour.*, p. 1263, Dec. 6, 1914.
- 421 WODAK, E. Glossitis Exfoliativa. *Prag. Med. Wochnschr.*, No. 5, 1914.

General.

- *422 AMSDEN, H. H. Case of Vincent's angina treated with neosalvarsan. *Med. Rec.*, p. 848, May 9, 1914.
- 423 AMSDEN, H. H. Vincent's angina. *Med. Rec.*, p. 881, Nov. 21, 1914.
- 424 ARZT. Tuberculosis of mucosa of mouth. *Wk. klin. Wchnschr.*, No. 16, 1914.
- 425 BALDENWECK, L. Foreign body (brooch) which remained five months in the pharynx of an infant. *Rev. hebdom. de Laryngol.*, p. 69, July 18, 1914.

- 426 BALL, H. J. Streptococcal throat disease. *N. A. Jour. of Homeop.*, p. 20, Jan., 1914, and *N. Y. State Jour. of Med.*, March, 1914.
- 427 BECK, J. C. Chronic focal infection of the nose, throat, mouth and ear. *Jour. A. M. A.*, p. 1636, Nov. 7, 1914.
- 428 BILANCIONI, G. Argyrosis, due to pencilling throat with silver nitrate (Argirosis subtotale da pennellature faringee di nitrato d'argento.) *Arch. ital. di Laryngol.*, p. 47, April 15, 1914.
- 429 BILLINGS, F. Mouth infection as a source of systemic disease. *Jour. A. M. A.*, p. 2024, Dec. 5, 1914.
- 430 BLAIR, V. P. Operative treatment of ankylosis of the mandible with a history of the operation and an analysis of 212 cases. *Surg. Gynecol. and Obstetr.*, p. 436, Oct., 1914.
- 431 BONOLA, F. Blocking the inferior maxillary nerve. *Policlin, Surg. Sec.*, No. 4, p. 153, April, 1914.
- 432 BOXWELL. Three fatal cases of pharyngitis. *Dublin Med. Jour.*, Jan., 1914.
- 433 BRENNAN, J. A. O. Foreign body in submaxillary gland. *Ky. Med. Jour.*, Dec. 15, 1914.
- 434 BROCA, A., SATIN, H., MONOD, R. A case of congenital neck fistula of lymphatic structure. *Arch. de Med. exper. et d'anatomie pathol.*, Jan, 1914.
- 435 BROCA, A. Congenital fistula of the neck. *Soc. de Chirurgie de Paris*, April 29, 1914.
- 436 BROCA, A. Abscess in side of pharynx. *Ann. de Med.*, June, 1914.
- 437 BROCA, A. Acute osteomyelitis of upper jaw in the new-born. *Presse Med.*, p. 577, July 29, 1914.
- 438 BROWN, G. V. I. Section on stomatology as a factor in the evolution of dental and medical science. *Jour. A. M. A.*, p. 2106, Dec. 12, 1914.
- 439 BRUNI, A. C. Origin and development of pedunculus pharyngohypophysarius. *Arch. ital. di. Otol.*, No. 2, p. 124, 1914.
- 440 CAMERA, U. Osteofibroma of the upper jaw. *Policlin.*, Jan. 25, 1914.
- 441 CAPPS, L. A. and DAVIS, D. J. Epidemic of streptococcus sore throat in Jacksonville, Ill., traced to milk of cows affected with streptococcus mastitis. *Arch. of Intern. Med.*, Nov., 1914.
- 442 CAPPS, J. A. and DAVIS, D. J. Relationship of septic sore throat to infected milk. *Jour. Infect Dis.*, July, 1914.
- 443 CHURCHMAN, J. W. Essential sialorrhea in a dog, cured by excision of parotid, submaxillary and portion of sublingual glands. *Bull. of Johns Hopkins Hosp.*, March, 1914.
- 444 COHEN, J. Three follicular cysts of the superior maxilla. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 24, 1914.
- 445 COLEMAN, C. C. Dentigerous cysts. Report of a case. *Va. Med. Semi-Monthly*, p. 405, Nov. 21, 1913.
- 446 COLVER, B. N. Acute pharyngitis. *Mich. Med. Soc. Jour.*, Feb., 1914.
- 447 DEWATRIPONT, L. Transmission of syphilis by the buccal passage in glass workers. *Presse oto-laryngol. Belge*, No. 7, p. 319, 1914.
- 448 DIXON, W. E. Pharyngeal diagnosis, from general practitioner's standpoint. *Okla. State Med. Ass'n. Jour.*, Nov., 1914.
- 449 DOMBROWSKI, C. Case of pharyngeal teratoid tumor. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 481, 1914.

- †450 DUNNING, H. S. Some surgical conditions of the jaw. *THE LARYNGOSCOPE*, p. 520, May, 1914.
- 451 DUPAQUIER, E. M. Severe case of Vincent's angina. *N. Orleans Med. and Surg. Jour.*, Sept., 1914.
- 452 DUVAL, P. Technic for removal of parotid gland. *Rev. de Chir.*, Feb., 1914.
- 453 EIJKMAN, L. P. H. More minute analysis of muscle-tensions in floor of mouth. *Vox*, p. 11, Feb., 1914.
- †454 EVES, C. B. Teratoma of the pharynx. *THE LARYNGOSCOPE*, p. 798, Sept., 1914.
- 455 FARBACH, H. J. Gonorrheal stomatitis. *N. Y. Med. Jour.*, p. 718, Oct. 10, 1914.
- 456 FEDDE, B. A. Retro-pharyngeal abscess. *Med. Rec.*, p. 1009, Dec. 12, 1914.
- 457 FERRARINI, G. Possibility of making a collateral outlet for the parotid gland into the submaxillary gland. *Gaz. degli Osped. e delle Clin.*, Vol. 35, Nos. 56-64, 1914; and *Zntribl. f. Chir.*, p. 1017, June 13, 1914.
- 458 FISHER, C. Case of Mikulicz' disease. *Jour.-Lancet*, March 15, 1914.
- 459 FRANCOIS, J. Acute osteomyelitis of superior maxilla in a nursing. *These de Paris*, 1914.
- 460 FRIEDBERGER and SHIOJI. Disinfection of oral cavity with ultra-violet rays. *Deut. Med. Wchnschr.*, No. 12, p. 585, 1914.
- 461 GALLAHER, T. J. Ludwig's angina. *Colo. Med.*, April, 1914.
- 462 GAULT. Endo-buccal route for partial resections of inferior maxilla. *Bull. d'oto-rhino-laryngol.*, p. 12, Jan., 1914.
- 463 GILMER, T. L. Study of the bacteriology of alveolar abscess and infected root canals. *Jour. A. M. A.*, p. 2023, Dec. 5, 1914.
- 464 GLAZE, A. L. Syphilitic sore throat diagnosed as diphtheria. Subsequent eruption confused with supposed erythema. *Jour. A. M. A.*, p. 1011, March 28, 1914.
- 465 GRAINER, MARTIN. Actinomycosis of the upper respiratory and esophageal passages with special reference to the salivary glands. (Aktinomykose der oberen Luft- und Speisewege mit besonderer Beruecksichtigung der Speicheldruesen). *Inaug. Dissert. Wuerzburg*, 1914.
- 466 GRAZZI, U. Herpes in the throat. *Policlin.*, p. 261, Feb. 22, 1914.
- 467 GREENE, R. A. Plaut-Vincent's angina with report of five patients treated with salvarsan. *N. W. Med.*, Feb., 1914.
- *468 GREIG, D. M. On primary hypertrophy of the gums and reduplication of the upper lip. *Edinburgh Med. Jour.*, Sept., 1914.
- 469 GUTTMANN, V. Amebal's findings in a maxillary cyst. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 464, 1914.
- 470 HAGEMANN, R. Improved technic for plaster bandage with hare-lip operations. *Zntribl. f. Chir.*, Vol. 41, Nos. 20-21, 1914.
- 471 HANCOCK, D. O. Hare-lip. *Ky. Med. Jour.*, March 15-April 1, 1914.
- 472 HANDRICK, E. Suppuration in parotid gland in children originating in middle-ear disease; four cases. *Jahrb. f. Kinderh.*, May, 1914.
- 473 HANS, H. Technic for correction of double hare-lip. *Zntribl. f. Chir.*, Aug. 15, 1914.

- 474 HASKIN, W. H. Importance of the teeth and jaws in development and in disease. *N. J. Dental Jour.*, May, 1914.
- 475 HASKIN, W. H. Oral sepsis of dental origin; medical and surgical aspects. *N. Y. Med. Jour.*, p. 979, May 16, 1914.
- †476 HASKIN, W. H. Some gateways of cryptogenic infection. The alveolar processes. *THE LARYNGOSCOPE*, p. 169, March, 1914.
- 477 HEAD, J. Prevention of mouth infection. *U. S. Naval Med. Bull.*, July, 1914.
- 478 HEINEMANN, O. Diagnosis of salivary concretions. *Muench. Med. Wchnschr.*, No. 16, p. 879, 1914.
- 479 HELBING, C. and MATTI, H. Adhesive plaster dressing for hare-lip operations. *Zntribl. f. Chir.*, p. 1385, Aug. 22, 1914.
- 480 HILLER, C. Removal of both superior maxillæ. *Lancet-Clin.*, p. 593, May 23, 1914.
- 481 HOFELDER and NARATH, A. Improved technic for hare-lip operations. *Zntribl. f. Chir.*, p. 1145, July 4, 1914.
- 482 HOFFMANN, H. Ankylosis of jaw, causing chin to recede; two cases. *Beitr. z. klin. Chir.*, June, 1914.
- 483 HOLMES, E. M. Epi-pharynx in children. *Ann. of Otol.*, p. 138, March, 1914, and *Am. Jour. of Surg.*, p. 149, April, 1914.
- 484 HOPKINS, F. E. Septic infection of parotid glands, resulting fatally. *Trans. Am. Laryngol. Ass'n.*, p. 235, 1914, and *Ann. of Otology*, p. 871, Dec., 1914.
- 485 HORNER, A. Pharyngeal abscess following esophageal injury. Tying of common carotid because of hemorrhage, due to erosion. *Prag. med. Wchnschr.*, No. 27, 1914.
- 486 HUTLER, F. Hyperostosis of the facial and skull bones and "hyperostosis maxillarum." *Monatschr. f. Ohrenh.*, Heft 2, p. 197, 1914.
- §487 JEANNERET, L. Malignant tumors of the pharynx in the infant. *Rev. hebdom. de Laryngol.*, p. 449, April 18, 1914. *THE LARYNGOSCOPE*, p. 533, May, 1914.
- 488 KERL. Ulcerous angina in purpura. *Wk. klin. Wchnschr.*, No. 20, 1914.
- 489 KNAPP, M. I. New teachings concerning diseases of the gastrointestinal tract—the pharynx. *N. Y. Med. Jour.*, p. 625, Sept. 26, 1914.
- 490 KNEUCKER, A. Cyst of upper maxilla complicated by foreign body. *Med. Klinik*, No. 10, p. 414, 1914.
- 491 KULKA, W. and NEUMANN, A. Parotitis in barracks. *Wk. klin. Wchnschr.*, Oct. 8, 1914.
- 492 LAACHE, S. Parotitis secondary to gastric ulcer. *Berl. klin. Wchnschr.*, March 16, 1914.
- 493 LABERNADIE, M. Clinical and pathologic study of phlegmons of the post-faucial pillar. (Les phlegmons du pilier posterior du voile du palais. Etude clinique et pathogenique.) *Rev. hebdom. de Laryngol.*, p. 97, Jan. 24, 1914.
- 494 LAUTENSCHLAEGER, E. Re-implantation of teeth from maxillary cysts. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 408, 1914.
- 495 LAZAREVIO, V. Retention tumor in parotid gland. *Wk. klin. Wchnschr.*, July 30, 1914.

- 496 LERICHE, R. Destroying the nerve causing secretion in salivary gland cures rebellious fistula. *Zentralbl. f. Chir.*, p. 753, May 2, 1914.
- *497 LESCHKE, E. Treatment of pneumococcic sore throat. *Muench. Med. Wchnschr.*, Dec. 29, 1914.
- 498 LETORD, H. Vincent's angina. *N. Mex. Med. Jour.*, June, 1914.
- 499 LIEBAULT and CANNY. Unusually large salivary calculus. *Gaz. hebdom. des Sci. med. de Bordeaux*, Jan. 4, 1914.
- 500 LITONIUS, F. W. Angina ulcero-membranacea. *Finska lakaresallsk. Handl.*, No. 3, 1914.
- 501 MACKENZIE, G. W. Some of the more common diseases of the oral cavity. *Hahnemannian Monthly*, May, 1914.
- 502 MARKHAM, H. C. Relation of pharyngeal lymphoid ring to general health. *Kans. Med. Soc. Jour.*, Jan., 1914.
- 503 MARTIN, W. Composite or fibro-epithelial tumors of the lips. *Surg. Gynecol. and Obstetr.*, p. 719, June, 1914.
- 504 MATAGUE, H. A rare case of herpetic stomatitis. *Ann. de la policlin. cent. de Bruxelles*, Feb., 1914.
- 505 MAYO, C. H. Mouth infection as a source of systemic disease. *Jour. A. M. A.*, p. 2025, Dec. 5, 1914.
- 506 MCKAY, W. G. Vincent's angina. Report of case. *Florida Med. Ass'n. Jour.*, Oct., 1914.
- 507 MEYERS, M. M. Interesting case of Vincent's angina. *Wkly Bull. St. Louis Med. Soc.*, p. 303, June 4, 1914.
- 508 MONTESINOS. Case of epulis. *Espan. Med.*, March 1, 1914.
- 509 MORGENSTERN, A. F. Tuberculosis as it affects the throat. *Therap. Digest*, p. 43, March, 1914.
- 510 MORSE, F. L. Wakefield and Stoneham epidemic sore throat. *Am. Jour. Pub. Health*, June, 1914.
- 511 MUNGER, C. E. Diseases of the salivary ducts. *Trans. Am. Laryngol. Ass'n.*, p. 292, 1914.
- 512 NORTH, C. E., WHITE, B. and AVERY, O. T. Septic sore throat epidemic in Cortland, and Homer, N. Y. *Jour. Infect. Dis.*, Jan., 1914.
- 513 O'GRADY, P. J. S. Co-existence of epithelioma and labial syphiloma. *Brit. Med. Jour.*, p. 860, April 18, 1914.
- 514 OXHOLM. Angina epidemic, due to milk infection. *Norsk Mag. f. Legevidensk.*, No. 5, 1914.
- 515 PASSALE. Case of noma. *Gaz. degli Osped.*, Feb. 24, 1914.
- 516 PARKER, G. Purpura hemorrhagica morbus maculosus Werllafi. *N. Y. Med. Jour.*, p. 132, July 18, 1914.
- 517 PARSONS, L. D. Stomatitis in relation to diphtheria. *Brit. Med. Jour.*, p. 755, Oct. 31, 1914.
- 518 PARTSCH, C. Temporary resection of the palate. *Berl. klin. Woch.*, No. 3, 1914.
- 519 PEAK, J. H. Ludwig's angina. *Ky. Med. Jour.*, Dec. 15, 1914.
- 520 POLLOCK, H. C. Some common facial deformities from an orthodontic standpoint. *Interstate Med. Jour.*, p. 576, May, 1914.
- 521 POTTER, N. B. Ulcerative angina. Occasional early symptom in typhoid. *Boston Med. and Surg. Jour.*, p. 137, July 23, 1914.
- 522 REICHE, F. Vincent's angina and diphtheria. *Med. Klinik*, Aug. 16, 1914.

- 523 RICHARDSON, J. Y. Study of Vincent's angina. *Ann. of Otol.*, p. 335, June, 1914.
- 524 ROSENOW, E. C. Mouth infection as a source of systemic disease. *Jour. A. M. A.*, p. 2026, Dec. 5, 1914.
- 525 SAINZDE, A. J. A. Recurring aphthæ of the mouth. *Espana Med.*, March, 1914.
- 526 SALOMON. Case of tropical follicular stomatitis. *Klin-therap. Wchnschr.*, Jan. 26, 1914.
- 527 SCHRAMMEK. Case of primary noma in an adult. *Wr. klin. Wchnschr.*, No. 17, 1914.
- 528 SCHUH, K. Salivary concretion. *Wr. klin. Rundschau*, No. 24, 1914.
- 529 SHEARER, W. L. Traumatism of oral cavity and surrounding tissue. *West. Med. Rev.*, p. 20, Jan., 1914.
- 530 SMITH, W. H. and KIRK, N. T. Foreign body in the submaxillary gland. *Jour. A. M. A.*, p. 403, Aug. 1, 1914.
- 531 SONNENSCHNEIN, R. Pemphigus involving primarily the mouth and throat, with report of cases. *Ann. of Otol.*, p. 619, Sept., 1914.
- 532 STATLER, W. K. Vincent's angina, with a case report. *Jour. Mo. State Med. Ass'n.*, p. 247, Jan., 1914.
- *533 STRANDBERG, D. Differential diagnosis between tuberculosis and syphilis of the mucosa of the upper air tract. *Ztschr. f. Laryngol.*, Bd. 7, Heft 1, p. 1, 1914; *Hospitalstidende*, March 18, 1914.
- 534 SUTTER, C. C. Ulcero-membranous angina (Vincent's) with report of cases and its treatment. *Med. Rev. of Rev.*, p. 22, Jan., 1914.
- 535 TEETS, C. E. Homeopathic therapeutics of the pharynx and larynx. *Jour. of Ophth., Otol. and Laryngol.*, p. 126, March, 1914.
- 536 THURSFIELD, H. Bilateral salivary swellings (Mikulicz disease.) *Gr. Jour. of Med.*, April, 1914.
- 537 TIEDEMAN, A. Tuberculosis of the buccal mucosa and gums. *Deut. Ztschr. f. Chir.*, Vol. 128, No. 5-6, 1914.
- 538 TRAUTMANN, G. Tonsillectomy. *Munch. Med. Wchnschr.*, June 2, 1914.
- 539 TURBERVILLE, J. S. Mumps. *South. Med. Jour.*, April, 1914.
- 540 WAGONER, F. Pulsation in throat. *Med. Klinik*, June 24, 1914.
- 541 WILLIGER, F. Inflammation of the mucosa of the mouth. *Ther. d. Gegenw.*, Dec., 1914.

III. ACCESSORY SINUSES.

Frontal Sinus.

- 542 BUYS and VAN LINT. Mucocoele of frontal sinus, with invasion of endocranium and orbit. *Arch. ital. di Otol.*, p. 250, June, 1914, and *Policlin.*, Jan. 15, 1914.
- 543 DENIS and VACHER, L. Endo-nasal treatment of frontal sinusitis. *Presse Med.*, Vol. 22, Nos. 49-51, 1914.
- 544 DENIS and VACHER. Intra-nasal treatment of frontal sinusitis. *Presse Med.*, June 27, 1914.
- 545 DUFAU, F. Mucocoele of frontal sinus. *Rev. hebdom. de Laryngol.*, Feb. 14-21, 1914.

- 546 FELDMANN. Metastatic osteomyelitis of the frontal bone operated while it was breaking into frontal sinus. *Ztschr. f. Ohrenh.*, Bd. 72, Heft 1, p. 30, 1914.
- 547 GROVE, W. E. Intra-nasal treatment of chronic frontal sinus suppuration. *Wis. Med. Jour.*, Aug., 1914.
- 548 LIBBY, G. F. Brief note on frontal sinus disease. *Den. Med. Times*, p. 258, Jan., 1914.
- *549 LOTHROP, H. A. Frontal sinus suppuration. *Ann. of Surg.*, June, 1914.
- 550 MACKENZIE, G. W. Report of case of bullet wound of frontal sinus and brain. *Interstate Med. Jour.*, p. 581, May, 1914.
- §551 MENZEL, K. M. Treatment of acute frontal sinus inflammation. *Monatschr. f. Ohrenh.*, Heft 3, p. 418, 1914; *THE LARYNGOSCOPE*, p. 760, Aug., 1914.
- *552 SARBO. Test for empyema of the frontal sinus. *Med. Klinik*, No. 13, 1914.
- 553 SOLOWIEJEZYK and KARBOWSKI. Suppuration of frontal sinus with intra-cranial complications (latent frontal sinus suppuration, epidural abscess, osteomyelitis of the whole vault of cranium). *Ztschr. f. Laryngol.*, Bd. 7, Heft 1, p. 14, 1914.
- 554 TILLEY, H. Intra-nasal treatment of empyema of the frontal sinus. *Jour. of Laryngol.*, p. 242, May, 1914.
- 555 UFFENORDE, W. Experiences with orbital method in operative treatment of chronic suppuration of the frontal sinus. *Passoies Beitr.*, Bd. 7, Heft 4-5, p. 296, 1914.
- §556 WILLIAMS, P. W. Intra-nasal operations for frontal sinus suppuration. *Jour. of Laryngol.*, p. 225, May, 1914; *THE LARYNGOSCOPE*, p. 893, Oct., 1914.
- 557 WINCKLER, E. Therapy of frontal sinus affections. *Arch. f. Laryngol.*, Bd. 29, Heft 1, p. 113, 1914.
- 558 WINCKLER, E. Treatment of frontal sinusitis. *Muench. med. Wchnschr.*, Aug. 4, 1914.
- 559 ZUMHASCH, A. Osteoma in frontal sinus. *Med. Klinik*, June 24, 1914.

Sphenoid Cells.

- 560 FREYSTADTL. Direct rentgenography of sphenoid sinus. *Berl. klin. Wchnschr.*, July 13, 1914.
- 561 HARRIS, C. M. Unusual complicated case of sphenoidal abscess, causing amblyopia. *Ophthalmic Record*, March, 1914.
- 562 McBEAN, G. M. Variations of sphenoid sinus disease. *Ann. of Otol.*, p. 419, June, 1914.
- 563 NELSON, R. B. Foreign body in sphenoid cavity. *South. Med. Jour.*, April, 1914.
- 564 SLUDER, G. Further observation on some anatomic and clinical relations of the sphenoid sinus to the cavernous sinus and the third, fourth, fifth, sixth and Vidian nerves. *Ann. of Otol.*, p. 755, Dec., 1914.
- 565 SOLENBERGER, A. R. Two cases of sphenoid disease with brain symptoms. *Colo. Med.*, Sept., 1914.

- 566 BOWEN, D. R. Roentgen examination of sphenoid sinus. *Am. Jour. of Roentgenol.*, p. 449, Oct., 1914.

Ethmoid Labyrinth.

- 567 CLARK, L. H. Anterior ethmoiditis, a factor in orbital and ocular diseases. *Jour. of Ophth., Otol. and Laryngol.*, p. 219, May, 1914.
- 568 CLEGG, J. G. Case of orbital cellulitis produced by ethmoidal sinusitis. Purulent meningitis. Death. *Med. Chronicle*, p. 17, April, 1914.
- 569 FIOCRE and LABERNADIE. Treatment of fronto-ethmoidal suppurations by the endo-nasal route. *Rev. hebdomadaire de Laryngol.*, p. 1, July 4, 1914.
- †570 GUENTZER, J. H. Orbital abscess with optic neuritis, due to acute ethmoiditis in a child. Operation. Recovery. *THE LARYNGOSCOPE*, p. 803; Sept., 1914.
- 571 HARDY, W. F. Retro-bulbar neuritis with ethmoidal involvement. Report of case. *Mo. State Med. Ass'n. Jour.*, Oct., 1914.
- 572 HASELTINE, B. Chronic ethmoid disease and its relation to asthma. *Jour. of Ophthal. Otol. and Laryngol.*, p. 110, March, 1914.
- 573 HOLMES, E. M. Clinical classification of ethmoiditis. *Jour. A. M. A.*, p. 2097, Dec. 12, 1914.
- 574 LAFITE-DUPONT. Epithelioma of the ethmoid and superior maxilla in a girl of 14 years. *Bull. d'oto-rhino-laryngol.*, p. 250, July, 1914, and *Rev. hebdomadaire de Laryngol.*, p. 8, July 4, 1914.
- 575 LEBOUX, L. Ethmoid suppurations. *Ann. de la Policlin. centrl. de Brux.*, p. 19, Jan., 1914, and *Ann. de la Policlin. centrl.*, Jan., 1914.
- 576 LOEB, H. W. Influence of nose on eye affections as evidenced by a case of bilateral blindness, and one of unilateral scintillating scotoma cured by operations on the ethmoid cells. *Ann. of Otol.*, p. 859, Dec., 1914.
- 577 SHAMBAUGH, G. E. Pathology of the ethmoid labyrinth. *Jour. A. M. A.*, p. 2100, Dec. 12, 1914.
- 578 MCCALL, J. Indications for surgery of ethmoid and sphenoid labyrinth. Case report. *Ind. State Med. Ass'n. Jour.*, April 15, 1914.

Maxillary Antrum.

- §579 ALAGNA, G. Rare case of empyema of the maxillary sinus following tertiary nasal syphilis. Operation. Cure. *Arch. intern. de Laryngol.*, p. 109, Jan.-Feb., 1914; *THE LARYNGOSCOPE*, p. 116, Feb., 1915.
- 580 ANDREWS, A. H. Surgery of the maxillary antrum. *Jour. Ophth. and Oto-Laryngol.*, p. 185, June, 1914.
- 581 HAYS, H. Diagnosis of disease of the maxillary antrum. *Am. Medicine*, p. 163, March, 1914.
- 582 HIRSCH, O. Treatment of cystic growths of maxillary antrum. (Ausspuelung zystischer Polypen aus der Kieferhöhle durch Punktion.) *Monatschr. f. Ohrenh.*, Heft 1, p. 123, 1914.
- *583 HURD, L. M. Surgery of maxillary antrum: intra-nasal route. *N. Y. State Jour. of Med.*, Sept., 1914.

- 584 KELLY, A. B. Difficulties and dangers of exploratory puncture of the antrum of Highmore. *Jour. of Laryngol.*, p. 556, Dec., 1914.
- 585 KOSOKABE, H. Clinical-anatomical investigation of ostium maxillare in chronic maxillary sinusitis. *Arch. f. Laryngol.*, Bd. 29, Heft 1, p. 155, 1914.
- 586 LEDUC, P. Plastic in antrotomy. Moure's method. *Rev. hebdom. de Laryngol.*, p. 707, June 13, 1914.
- 587 LUTZ, S. H. Surgery of maxillary antrum: external route. *N. Y. State Jour. of Med.*, Sept., 1914.
- 588 LYNCH, R. C. Vacuum diseases of the maxillary sinus. *Ann. of Otol.*, p. 59, March, 1914.
- 589 MAAG. Odontoma in the antrum of Highmore with heterotopic wisdom tooth. *Fortschr. d. Roentgenstr.*, Bd. 21, Heft 3, p. 298, 1914.
- §590 MACKENZIE, G. W. Diseases of the maxillary sinus. *Jour. of Ophthalmol. and Laryngol.*, p. 199, May, 1914; *THE LARYNGOSCOPE*, p. 900, Oct., 1914.
- 591 RADZWILL, O. Pathology and therapy of maxillary sinus suppuration. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 285, 1914.
- 592 RANKEN. Diagnosis and treatment of empyema of maxillary sinus. *Brit. Dent. Jour.*, March, 1914.
- 593 RETHIO, L. Advantages of intra-nasal operative treatment of maxillary sinusitis. *Wk. klin. Wchnschr.*, April 16, 1914.
- †594 SKILLERN, R. H. Preturbinal operation on the maxillary sinus. *THE LARYNGOSCOPE*, p. 901, Nov., 1914.
- 595 STIEREN, E. Glioma-sarcoma of the retina with recurrence in antrum of Highmore. *Pa. Med. Jour.*, June, 1914.
- 596 THOMPSON, J. A. and WEINTZ, C. H. Study of chronic ethmoiditis. *Lancet-Clinic*, Jan. 10, 1914.
- 597 WEILL, G. A. Diametric drainage of the maxillary sinus. *Ann. des Mal. de l'Oreille*, No. 4, p. 384, 1914.
- 598 ZBROWSKI. Fusio-cellular sarcoma of the antrum of Highmore and nose. *Medycyna*, No. 2, 1914.
- §599 ZEMANN, W. Bilateral submucous resection of the lateral nasal wall and the removal of a large foreign body from the maxillary sinus, through this route. *Ztschr. f. Laryngol.*, Bd. 6, Heft 6, p. 821, 1914; *THE LARYNGOSCOPE*, p. 719, Aug., 1914.

General.

- 600 BEAUDOUX, H. A. Diseases of the sinuses, their diagnosis and treatment, with illustrations of cases. *St. Paul Med. Jour.*, Aug., 1914.
- 601 BROWN, E. J. Diagnosis and conservative treatment of nasal sinus disease. *Jour. Lancet*, April 15, 1914.
- 602 COAKLEY, C. G. Empyema of the nasal accessory sinuses in children under 14 years of age; surgical consideration. *Trans. Am. Laryngol. Ass'n.*, p. 126, 1914.
- 603 COFFIN, L. A. Empyema of the nasal accessory sinuses in children under 14 years of age; general considerations. *Trans. Am. Laryngol. Ass'n.*, p. 111, 1914.

- 604 DABNEY, S. G. Symptoms and diagnosis of diseases of nasal accessory sinuses. *Ky. Med. Jour.*, Feb. 1, 1914.
- 605 DE FLINES, E. W. Is there a connection between the location of the transverse sinus and the shape of the naso-pharyngeal cavity? *Nedrl. Tijdschr. v. Geneesk.*, June 27, 1914.
- 606 DOWLING, J. I. Nasal tampon treatment of sinus disease and ocular complications. *South Med. Jour.*, June, 1914.
- 607 DOWLING, J. I. Treatment and surgery of the accessory nasal sinuses for relief of ocular diseases. *N. Am. Jour. of Hom.*, Feb., 1914.
- 608 ELSCHNIG, A. Accessory cavities of the nose in connection with the pathology of the eye. *Med. Klinik*, Sept. 6, 1914.
- 609 FREYSTADT, B. Weber tuning fork test in empyema of the accessory sinuses. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 28, 1914.
- 610 GANTER. Thrombosis of cavernous sinus. *Med. Klinik*, No. 5, 1914.
- 611 GEORGE, A. W. Diseases of accessory sinuses. *Am. Jour. of Roentgenol.*, Sept., 1914.
- 612 GLEASON, E. B. Conservative treatment of suppuration of the accessory sinuses of the nose. *THE LARYNGOSCOPE*, p. 963, Dec., 1914.
- 613 GLOGAU, O. Case of sinus thrombosis, due to necrosis of a periosteal flap. *Monatschr. f. Ohrenh.*, Heft 4, p. 579, 1914.
- 614 GOERKE, M. Hemorrhages from the sinus, its dangers and its treatment. *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2, p. 36, 1914.
- 615 GOSNEY, C. W. Ocular manifestations of sinus disease. *Jour. Mo. State Med. Ass'n.*, p. 429, May, 1914.
- 616 HALLE. Intra-nasal operation in suppuration of the nasal accessory cavities. *Arch. f. Laryngol.*, Bd. 29, H. 1, 1914.
- 617 HAYNES, H. H. Inflammations of nasal accessory sinuses. *W. Va. Med. Jour.*, Aug., 1914.
- 618 HENKES, I. C. Anatomy of the transverse sinus. *Nederl. Tijdschr. v. Geneesk.*, No. 3, 1914.
- 619 HENNEBERT. Latent sinusitis. *Presse med. Belge*, March 15, 1914.
- 620 HILFRICH, K. J. Intra-orbital complications in acute and chronic, nasal accessory sinus affections. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 31, 1914.
- 621 HOLMES, C. R. Inflammation of accessory sinuses. *Lancet-Clin.*, Oct. 31, 1914.
- 622 HOWLAND, G. W. Diagnosis of subtentorial tumors. *Can. Med. Ass'n. Jour.*, p. 604, July, 1914.
- 623 HUBER, G. U. and FLACK, F. L. Unusual case of screw-worms in the nose and nasal accessory sinuses. *Jour. A. M. A.*, p. 2288, Dec. 26, 1914.
- 624 HUG, T. Case of gangrenous pansinusitis (scarlatinous?). *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 31, 1914.
- 625 KAHLE, O. Treatment of acute threatening sinusitis. *Deut. med. Wchnschr.*, p. 625, March 26, 1914.
- 626 KNEIDLER, G. C. Headache as a symptom of disease of the accessory sinuses. *Pittsburgh Med. Jour.*, p. 7, April, 1914.
- 627 LAFITE-DUPONT. Procedure à casatrice cachée for resection of the superior maxilla of the ethmoid and for access to the sphenoid and cavity. *Bull. d'oto-rhino-laryngol.*, p. 248, July, 1914.

- 628 LEDERMAN, M. D. (1) Sinus operation; resection of internal jugular vein; pneumonia. Metastatic abscesses in ankle joints. Recovery. (2) Sinus operation; ligation of internal jugular vein; shock during operation; prolonged convalescence. *Ann. of Otol.*, p. 365, June, 1914.
- 629 LEVY, R. Diagnosis and indications for treatment of suppurative diseases of the nasal accessory sinuses. *Jour. Ophth. and Oto-Laryngol.*, p. 8, Jan., 1914; and *N. W. Med.*, March, 1914.
- †630 MAC FARLAN, D. Radiography of the nasal sinuses. *THE LARYNGOSCOPE*, p. 485, May, 1914.
- 631 MARKBREITER, I. Changes in field of vision, due to nasal and nasal accessory sinus affections. *Monatschr. f. Ohrenh.*, Heft 2, p. 218, 1914.
- 632 MAXWELL, J. T. Diagnosis of disease of accessory sinuses of nose. *Ga. Med. Ass'n. Jour.*, Sept., 1914.
- 633 MILLER, R. W. Affections of eyes resulting from sinus involvement. *Jour. Ophth. and Oto-Laryngol.*, p. 1, Jan., 1914.
- †634 MOSHER, H. P. Orbital approach to the cavernous sinus. *THE LARYNGOSCOPE*, p. 709, Aug., 1914.
- §635 MOURE, E. J. What becomes of the operated sinus? *Rev. hebdom. de Laryngol.*, p. 401, April 4, 1914; *THE LARYNGOSCOPE*, p. 732, Aug., 1914.
- 636 NUERNBERG, C. Destruction of bone in nose and nasal accessory sinuses in scarlet fever. *Passows Beitr.*, Vol. 8, Heft 1-3, p. 181, 1914.
- 637 OPPENHEIMER, S. Surgical anatomy, diagnosis, and treatment of nasal accessory sinuses in children. *Med. Rec.*, p. 329, Feb. 21, 1914.
- 638 PAUNZ, M. Inflammation of the accessory cavities of the nose as complications of scarlet fever. *Jahrb. f. Kinderh.*, Nov., 1914.
- 639 PEARSON, W. W. Sinus infections. *Iowa State Med. Soc. Jour.*, Dec., 1914.
- 640 PETER, L. C. Value of eye symptoms in the diagnosis of obscure chronic sinus disease. *Ann. of Otol.*, p. 759, Dec., 1914.
- 641 RAU, E. Diseases and pathology of nasal accessory sinuses. *Ky. Med. Jour.*, Feb. 1, 1914.
- 642 SEAMANN, C. Affections of eyes caused by sinus infection. *N. W. Med.*, Aug., 1914.
- †643 SKILLERN, R. H. Vaccine treatment in accessory sinus suppurations. *THE LARYNGOSCOPE*, p. 676, July, 1914.
- 644 STAPLETON, E. A. Diseases of the nasal accessory sinuses. *Albany Med. Ann.*, p. 121, March, 1914.
- *645 STREISSLER, E. Gunshot injury of right cavernous sinus. *Deutsche Gesellsch. f. Chir.*, 1914.
- †646 STUCKY, J. A. Some serious eye conditions, the result of intranasal and nasal accessory sinus disease. *THE LARYNGOSCOPE*, p. 7, Jan., 1914.
- 647 STUCKY, J. A. and W. S. Treatment of diseases of nasal accessory sinuses—surgical and otherwise. *Ky. Med. Jour.*, Feb. 1, 1914.
- 648 SYME, W. S. Diagnosis of nasal accessory sinus disease. *Practitioner*, p. 589, Nov., 1914.

- 649 VAN ITTERSON, C. J. A. Combined nose and nasal accessory sinus polypus. *Ztschr. f. Laryngol.*, Bd. 6, Heft 6, p. 831, 1914.
- 650 WEINBERGER, N. S. Some ocular disturbances of nasal and accessory sinus origin. *Pa. Med. Jour.*, May, 1914.
- 651 WOOD, G. B. Empyema of the nasal accessory sinuses in children under 14 years of age; pathological consideration. *Trans. Am. Laryngol. Ass'n.*, p. 115, 1914.
- †652 WYLLIE, C. B. Physiologic and pathologic relations of the eye and accessory sinuses of the nose. *THE LARYNGOSCOPE*, p. 496, May, 1914.
- 653 THOMSON, St. C. Symptoms and complications of sinusitis. *Practitioner*, p. 745, June, 1914.

IV. LARYNX. BRONCHI. TRACHEA. ESOPHAGUS.

Epiglottis.

- †654 LEDERMAN, M. D. Acute phlegmonous epiglottiditis. *THE LARYNGOSCOPE*, p. 25, Jan., 1914.
- *655 MARTINEZ, EMILO. A case of papilloma of the glottis cured by radium. (Un Caso de papilomas de la glotis curado por el radio). *III. Congress med. Nacional de Cuba.*, Dec., 1914.

Voice and Speech Defects.

- 656 ADAMS, M. E. Intelligibility of the speech of the deaf. *Am. Ann. of Deaf*, p. 451, Nov., 1914.
- 657 BAGLIONI, S. Influence of sound on the vocal height of language. A factor of linguistic groupings. *Arch. ital. di Otol.*, p. 313, Sept., 1914; *Vox*, p. 65, April, 1914.
- 658 BAGLIONI, S. Variazioni del registro vocale nelle diverse ore del giorno. *Arch. ital. di Otol.*, p. 299, Sept., 1914.
- *659 BARJON and FROMENT, J. Transitory aphasia. *Lyon Med.*, April 26, 1914.
- 660 BELL, A. M. Principles of speech and dictionary of sounds, including directions and exercises for the cure of stammering and correction of all faults of articulation. *Volta Rev.*, Feb.-Oct., 1914.
- 661 BIAGGI, C. Il corista della scala. *Arch. ital. di Otol.*, p. 363, Sept., 1914.
- 662 BIAGGI, C. Influence of voice of teachers on voice of pupil. *Arch. ital. di Otol.*, p. 305, Sept., 1914.
- 663 BINON. Infantile voice. *Bull. d' oto-rhino-laryngol.*, p. 99, March, 1914.
- 664 BUELL, E. M. Easy and natural speech. *Am. Ann. of Deaf*, Sept.-Oct., 1914.
- †665 CADWALLADER, B. Elimination of speech and voice defects. *THE LARYNGOSCOPE*, p. 986, Dec., 1914, and *Cleveland Med. Jour.*, Nov., 1914.
- 666 CANESTRO, C. Dysphonia after the use of chloroform. *Arch. f. laryngol.*, Bd. 28, Heft 2, p. 337, 1914.
- 667 CISLER. Disturbances in phonation and articulation in atropin poisoning. *Sbornik lek.*, No. 1-2, 1914.

- 668 CISLER. Pathology of permanent median position of vocal cord. *Ztschr. f. Laryngol.*, Bd. 7, Heft 3, p. 327, 1914.
- 669 COPE, V. Z. Traumatic sensory aphasia. *Brit. Jour. of Surg.*, April, 1914.
- 670 DEBECUM, F. X. Case of subcortical or pure motor aphasia. *Jour. Nerv. and Ment. Dis.*, p. 137, March, 1914.
- 671 DEBECUM, F. X. Clinical interpretation of aphasia. *N. Y. Med. Jour.*, p. 865, May 2, 1914.
- 672 DIEBOLD, F. Voice and its training. *Correspond. Bl. f. Schweizer-Aerzte*, Dec. 5, 1914.
- 673 DRIGGS, F. M. Speech problems in combined-system schools. *Volta Rev.*, p. 631, Sept., 1914.
- *674 DUPUY, E. Localization of motor and speech centers in definite areas of cortex and brain. *Lancet*, p. 207, July 25, 1914.
- 675 DYER, H. L. Harmonic gymnastics a means of improving the voice, health and personal appearance. *Volta Rev.*, p. 5, Jan., 1914.
- 676 DYER, H. L. Need a deaf child's speech be expressionless? *Volta Rev.*, p. 85, Feb., 1914.
- 677 ELDERS-CREFFELD, A. New method of treating stuttering. *Stimme*, p. 230, May, 1914.
- 678 EVARTS, A. B. Report of a case of aphasia and apraxia. *N. Y. Med. Jour.*, p. 1193, Dec. 19, 1914.
- 679 EIJKMAN, L. P. H. Tongue-position in the pronunciation of some vowels as set forth by roentgen-photographs. *Vox*, p. 129, June 1, 1914.
- 680 FIORENTINO, A. Confirmatory experiments on the composition of the vocals. (Ultime esperienze confermantì le nuove idee sulla composizione delle vocali.) *Arch. ital. di Otol.*, p. 276, Sept., 1914.
- 681 FIORENTINO, A. Study of the vocals. (La scelta delle voci per lo Studio delle vocali.) *Arch. ital. di Otol.*, p. 267, Sept., 1914.
- 682 FLATAU, T. S. Study of the visible movements of speech. *Stimme*, p. 257, June, 1914.
- 683 FROESCHELS, E. Hygiene of voice and speech. *Med. Klinik*, p. 1255, July 26, 1914.
- 684 FROESCHEL, E. Stuttering. *Wk. klin. Wchnschr.*, No. 26, 1914.
- *685 FROMENT, J., and MONOD, O. Re-education of speech in motor aphasia. *Lyon Med.*, p. 329, Feb. 15, 1914.
- 686 GIANFRANCESCO, G. Study of the vocal curve. *Arch. ital. di Otol.*, p. 289, Sept., 1914.
- 687 GOODMAN, H. Stammering cured by hypnotism. *Med. Jour. of S. Africa*, p. 95, Dec., 1914.
- 688 GRADENIGO, C., BIAGGI, C. and STEFANINI, A. Application of experimental phonetics in the clinic. *Arch. intern. de Laryngol.*, Jan.-April, 1914.
- 689 GUTZMANN, H. Experimental phonetics. *Stimme*, p. 2, Oct., 1914.
- 690 GUTZMAN, H. University ambulatory for speech and voice disturbances. *Vox*, Heft 5-6, p. 276, 1914.
- 691 HAHN, R. Volumetric signs in explosive voice, in physiologic voice in normal subjects and those with cocaineized larynx. (Traccati volumetrici del diverso consumo di aria nell'attacco di voce esplosive e nell'attacco di voce fisiologico in soggetti normali ed in soggetti sottoposti alla cocainizzazione del laringe). *Arch. ital. di Otol.*, Sept., 1914.

- 692 HAUBOLD, H. A. Traumatic aphasia. *Surg. Gynecol and Obstetr.*, p. 669, Nov., 1914.
- 693 HENDERSON, J. M. Voice-training and rhythm; their application to the teaching of speech to the deaf. *Volta Rev.*, p. 435, July, 1914.
- 694 KENNEDY, M. Value of syllable practice in speech reading. *Volta Rev.*, p. 31, Jan., 1914.
- *695 KENYON, E. L. Problem of the stammering child. *Jour. Ophth. and Oto-Laryngol.*, p. 247, Aug., 1914, and *Ill. Med. Jour.*, Aug., 1914.
- 696 KLEIST. Aphasia and mental disease. *Muench. med. Wchnschr.*, Jan. 6, 1914.
- 697 LINDNER, R. Articulation of the s-sound in deaf-mute instruction. *Vox*, p. 89, April 19, 1914.
- 698 MACY, M. S. Two cases of hysteric stuttering in children. *Med. Rev. of Rev.*, p. 251, May, 1914.
- 699 MAKUEN, G. H. Demonstration of defects of speech. *Pa. Med. Jour.*, Jan., 1914.
- †700 MAKUEN, G. H. Hypertrophied tonsils interfering with the action of the palate and causing defective speech. *THE LARYNGOSCOPE*, p. 22, Jan., 1914.
- †701 MAKUEN, G. H. On voice culture. *THE LARYNGOSCOPE*, p. 827, Sept., 1914.
- 702 MAKUEN, G. H. Study of 1,000 cases of stammering, with special reference to the etiology and treatment of the affection. *Ther. Gaz.*, June 15, 1914.
- †703 MAKUEN, G. H. Surgery of faucial tonsil as it relates to the functions of the tongue and soft palate in the production of voice. *THE LARYNGOSCOPE*, p. 508, May, 1914.
- 704 MANCIOLI, T. Breathing during singing. (La respirazione nel canto). *Arch. ital. di Otol.*, p. 455, Sept., 1914.
- 705 MARAGE. Study and treatment of stammering by photography. *Arch. intern. de Laryngol.*, p. 799, May-June, 1914.
- 706 MILLS, C. K. Different theories of asphasia. *N. Y. Med. Jour.*, p. 861, May 2, 1914.
- 707 MINGAZZINN, G. Aphasia, due to atrophy of cerebral convolutions. *Brain*, May, 1914.
- 708 NADOLECZNY. Ferien-Sprachellkurse für unbemittelte Schulkinder. *Vox*, Aug. 1, 1914.
- 709 NEUMANN, F. Remarkable case of aphonia cured by paraffin injection into larynx. *Wk. klin. Wchnschr.*, No. 20, 1914.
- 710 NICKEL, K. Speech without a larynx. *Stimme*, May-June, 1914.
- 711 PARSONS, J. G. Nasal and pharyngeal conditions affecting voice. *Jour-Lancet*, Oct. 15, 1914.
- 712 PETERS, W. E. Researches on phonetics made under the auspices of the Carnegie trust for the universities of Scotland. *Vox*, p. 180, Aug. 1, 1914.
- 713 PONZO, M. Individual familial characteristics of the pneumographic curve in the phonetic reaction. (Caratteristiche individuali e famigliari, elle curve pneumografiche nelle reazioni fonetiche). *Arch. ital. di Otol.*, Sept., 1914.
- 714 PONZO, M. and HÄHN, R. Ricerche preliminari intorno all' influenza di ritmi oggettivi sull' emissione ritmica di fonemi. *Arch. ital. di Otol.*, Sept., 1914.

- 715 PULLE. La glottologia nei suoi rapporti colla fonetica sperimentale. *Arch. ital. di Otol.*, Sept., 1914.
- 716 RENZETTI, F. We must make them talk. *Volta Rev.*, p. 641, Sept., 1914.
- 717 RETHI, L. Phonographic studies of consonants. *Arch. intern. de Laryngol.*, p. 472, March-April, 1914.
- 718 RHEIN, J. H. W. Apraxia in relation to aphasia. *N. Y. Med. Jour.*, p. 967, May 16, 1914.
- 719 RIVETTA, S. Importance of phonetics. *Arch. ital. di Otol.*, p. 335, Sept., 1914.
- 720 SILVA, G. Experimental phonetics and voice culture. La fonetica esperimentale e la pedagogia del canto artistico italiano). *Arch. ital. di Otol.*, p. 336, Sept., 1914.
- 721 STEFANINI, A. (Nuovi studi sulle vocali). *Arch. ital. di Otol.*, p. 293, Sept., 1914.
- 722 STERN, H. Cases of masculine voice phonation. *W. Klin. Wochsch.*, No. 6, 1914.
- 723 STORY, A. J. Development of speech and speech reading. *Volta Rev.*, p. 13, Jan. 1914.
- *724 SWIFT, W. B. Voice sign in chorea. *Am. Jour. Dis. of Children*, June-October, 1914.
- 725 TAYLOR, H. Phonograph as an aid in articulation teaching. *Am. Ann. of Deaf*, p. 337, Sept., 1914.
- 726 THOMASON, P. Experiment in voice culture. *Volta Rev.*, p. 441, July, 1914.
- 727 THOORIS, A. The voice. *Arch. intern. de Laryngol.*, p. 495, March-June, 1914.
- *728 TROEMMER, E. Pathogenesis of stuttering. *Med. Klinik*, March 8, 1914.
- 729 WEISENBURG, T. H. Anarthria and its relation to aphasia. *N. Y. Med. Jour.*, p. 969, May 16, 1914.

Larynx.

- §730 ABOULKER, H. Four cases of leeches adhering to the larynx. *Rev. hebdom. de Laryngol.*, May 23, 1914; *THE LARYNGOSCOPE*, p. 763, Aug., 1914.
- 731 ABOULKER, H. Resection of superior laryngeal nerve in tubercular dysphagia. *Rev. hebdom. de Laryngol.*, p. 641, May 30, 1914.
- 732 ABOULKER, H. Total laryngectomy with pharyngectomy under local anesthesia. *Rev. hebdom. de Laryngol.*, p. 167, Feb. 7, 1914.
- *733 ALBRECHT, W. Suspension laryngoscopy in children with particular reference to the treatment of papilloma. *Jour. of Laryngol. Rhinol. and Otol.*, p. 71, Feb., 1914.
- †734 ARROWSMITH, H. (a) Another unusual laryngeal tumor. Specimen. (b) A curious esophageal experience. Skiagraph and foreign body. *THE LARYNGOSCOPE*, p. 531, May, 1914.
- 735 BARTH, A. Cancer of the larynx. *Deut. Ztschr. f. Chir.*, Vol. 129, p. 1, 1914.
- 736 BEAL, R. Laryngeal stridor in an adult, par bascule of the arytenoids. *Bull. d'oto-rhino-laryngol.*, p. 109, March, 1914.

- *737 BECK, J. C. Cancer of the larynx, with special reference to radium therapy. *Ann. of Otol.*, p. 166, March, 1914.
- 738 BECO, L. Fibroma of the laryngeal vestibule. *Presse Oto-Laryngol. Belge*, No. 2, p. 72, 1914.
- 739 BEHR, M. Primary laryngeal actinomykosis. *Ztschr. f. Laryngol.*, Bd. 6, Heft 6, p. 813, 1914.
- 740 BERARD, SARGNON and BESSIERE. Laryngectomy. Historical data, indications, technic and results. *Arch. intern. de Laryngol.*, Jan.-June, 1914.
- 741 BERARD and SARGNON. Laryngo-pharyngectomy in cancer. *Bull. d'oto-rhino-laryngol.*, p. 81, March, 1914.
- 742 BEVACQUA, A. Laryngectomy for tumor: two cases. *Polinclin.*, p. 361, Aug. 15, 1914.
- 743 BILANCIONI, G. Familial tuberculous laryngitis. *Polinclin.*, p. 1705, Dec. 6, 1914.
- 744 BLANC and JARSAILLON. Five cases of laryngostomy. *Ann. des Mal. de l'Oreille*, No. 2, p. 146, 1914.
- 745 BOTEY, R. Speech after total extirpation of the larynx. *Arch. di laringol*, March, 1914.
- 746 BOTEY, R. Function of larynx after total removal. *Arch. de Rinol.*, p. 25, Jan.-March, 1914.
- 747 BOTEY, R. Two cases of total extirpation of the larynx. *Revista de Med. y chir. prac.*, Jan., 1914.
- 748 BOTEY, R. Total laryngectomy with partial extirpation of the pharynx and trachea. Speech by means of the author's artificial larynx. *Revista med. de Sevilla*, Jan., 1914.
- 749 BOTEY, R. Three cases of total removal of larynx by the Gluck method under local anesthesia. *Ann. des Mal. de l'Oreille*, No. 4, p. 348, 1914.
- §750 BOTEY, R. Laryngectomy in cancer of larynx. *Arch. intern. de Laryngol.*, p. 26, Jan.-Feb., 1914, and *Gac. Med. Catalana*, Feb. 28, 1914; *THE LARYNGOSCOPE*, p. 45, Feb. 1915.
- 751 BOTEY, R. Gluck's method of local anesthesia in total removal of larynx. *Arch. intern. de Laryngol.*, p. 365, March-April, 1914, and *Arch. de rinol., laringol. y otol., etc.*, p. 65, April-June, 1914.
- 752 BROECKAERT, J. Study of spontaneous cure of certain malignant laryngeal tumors. *Ztschr. f. Laryngol.*, Bd. 7, Heft 2, p. 235, 1914.
- 753 BUCHER, W. M. and CHAMBERLIN, W. B. Alcohol injections in tuberculosis of the larynx. *Interstate Med. Jour.*, p. 379, April 1914.
- 754 BUSCH, V. A. Laryngo-stenosis. *Ped.*, Vol. 5, No. 10, 1914.
- 755 CANFIELD, A. B. Recurring polypi, with tetany. *Ann. Otol., Rhinol. and Laryngol.*, March, 1914.
- 756 CANFIELD, R. B. Case of recurring laryngeal polypi, with tetany. *Ann. of Otol.*, p. 93, March, 1914.
- 757 CASSELBERRY, W. E. Recurrent lymphomata of the laryngo-pharynx. Presence of streptococcus hemolyticus in the growths excised and in an associated speno-ethmoidal discharge. Auto. vaccination. Arrest of recurrence. Recovery. *Trans. Am. Laryngol. Ass'n.*, p. 197, 1914.
- *758 CASTEX, A. Broncho-pulmonary complications in pharyngolaryngeal surgery (pathogenesis, prophylaxis and treatment). *Bull. d'oto-rhino-laryngol.*, p. 193, July, 1914.

- 759 CAVANAUGH, J. A. Topography of larynx. *Ill. Med. Jour.*, Nov., 1914.
- 760 CHORONSHITZKY, J. Calcified laryngeal fibroma. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 485, 1914.
- 761 CHRIST, C. D. Sand-spur in larynx; its removal, report of two cases. *Florida Med. Ass'n. Jour.*, July, 1914.
- 762 CITELLI. Chordectomy in stenosis of the larynx, due to permanent median position of the vocal cords. (La cordectomia nelle stenosi laringee per posizione mediana permanente delle, due corde). *Boll. delle Mal.*, p. 1, Jan., 1914; *Ztschr. f. Laryngol.*, Bd. 6, H. 6, 1914.
- 763 CITELLI. Surgical treatment of laryngeal stenosis, due to median position of both vocal cords. Remarks on Sargnon's and Toubert's work. *Ann. des Mal. de l'Oreille*, No. 6, p. 557, 1914.
- 764 CLARK, J. M. Plea for intubation. *Tenn. State Med. Ass'n. Jour.*, Jan., 1914.
- 765 CLAY, J. V. F. Sarcoma of the mediastinum, presenting early laryngeal symptoms. *Jour. of Ophth. Otol and Laryngol.*, p. 291, July, 1914.
- *766 COBURN, R. C. Erroneous deductions from tracheal insufflation. *N. Y. Med. Jour.*, p. 1238, June 20, 1914.
- 767 COLLET. Helio-therapy of the larynx. *Lyon Med.*, Vol. 46, Nos. 18-19, 1914.
- 768 CORNING, E. Use of scarlet red in treatment of tuberculous laryngitis. *Albany Med. Ann.*, p. 77, Feb., 1914.
- 769 CREMONESE, G. Laryngeal disturbance in malaria. *Gaz. degli Osped. e delle Cliniche*, p. 1893, Nov. 5, 1914.
- 770 CULP, J. F. Acute edematous laryngitis. *Pa. Med. Jour.*, May, 1914.
- *771 CURTIS, H. H. Indirect intra-laryngeal method for removal of benign neoplasms. *Jour. A. M. A.*, p. 1922, Nov. 28, 1914.
- 772 DECHERD, H. B. Papillomata of larynx. *Tex. State Med. Jour.*, April, 1914.
- 773 DELLA, VEDOVA and CASTELLANI, L. Results in two cases of conservative surgical treatment of laryngeal carcinoma. (Il risultato di, due carcinomi laringei trattati da tempo per la via del collo con intervento conservativo). *Prat. oto-rino-laryngoiatrica*, p. 171, June 30, 1914.
- 774 DE NUNNO, R. Benign mycosis of Fraenkel (Sulla micosi benigna di Frænkel). *Arch. ital. di Laringol.*, p. 163, Oct. 5, 1914.
- 775 DE SANTI, P. P. W. Pathology of the different acute inflammations of the larynx and throat, including acute edema, phlegmon and erysipelas of the pharynx and larynx, and angina Ludovici but excluding diphtheria. *Monatschr. f. Ohrenh.*, Heft 3, p. 401, 1914.
- 776 DODINE. Results of tracheotomy for diphtheritic laryngeal stenosis. *Vratch. Gaz.*, Jan. 5-12, 1914.
- 777 DREJER. Relief of dysphagia in laryngeal tuberculosis. *Norsk Mag. f. Lægevidensk.*, Jan., 1914.
- *778 DUCUNG, L. Interesting case of foreign body in larynx. *Rev. heb. de Laryngol.*, p. 674, June 6, 1914; *THE LARYNGOSCOPE*, p. 27, Feb., 1915.
- 779 DWORETSKY, J. Etiology and prophylaxis of tuberculous laryngitis. *Ann. f. Otol.*, p. 835, Dec., 1914.

- 780 FELESTEIN. Laryngeal paralyses. *Bull. d'oto-rhino-laryngol.*, p. 152, May, 1914.
- 781 FETTEROLF, G. E. Larynx in 100 cases dying of pulmonary tuberculosis. *Trans. Am. Laryngol. Ass'n.*, p. 258, 1914.
- 782 FREUDENTHAL, W. Management of laryngeal tuberculosis in sanatoria and private practice. *Med. Rec.*, p. 972, May 30, 1914.
- *783 FRUHWALS, V. Perichondritis of thyroid cartilage. Report of two cases. *Wien. Klin. Woch.*, Jan. 15, 1915.
- 784 GAGGIA, M. Leech in the larynx. *Giorn. di Med. Mil.*, Vol. 62, Heft 4, 1914.
- 785 GALAND. Trauma to the larynx. (Accident du travail atteignant le larynx). *Presse oto-laryngol. Belge*, No. 7, p. 333, 1914.
- *786 GAREL, J. Intermittent claudication of the larynx and right leg. *Ann. des Mal. de l'Oreille*, No. 6, p. 541, 1914.
- 787 GECHTMANN, G. Lupoma, especially of larynx. *Ztschr. f. Laryngol.*, Bd. 7, Heft 2, p. 205, 1914.
- *788 GETSCHELL, A. C. Present status of treatment of laryngeal tuberculosis in Massachusetts State Sanatoria. *Boston Med. and Surg. Jour.*, July 2, 1914; *THE LARYNGOSCOPE*, p. 19, Feb., 1915.
- 789 GRABOWER. Functional degeneration of paralyzed laryngeal muscle and atrophy, due to non-use. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 351, 1914.
- 790 GRUNWALD, L. Peculiar hyperplastic inflammation in the larynx. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 225, 1914.
- 791 HARRIS, T. J. Chronic stenosis of larynx. *N. Y. State Jour. of Med.*, March, 1914.
- 792 HARRIS, T. J. Notes on five unusual laryngeal cases. *Post-Grad.*, Jan., 1914.
- 793 HARRIS, T. J. Treatment of multiple laryngeal papilloma with radium. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 474, 1914.
- 794 HARRISON, W. J. Gumma of the larynx, necessitating tracheotomy. Negative Wassermann reaction. *Brit. Med. Jour.*, p. 1292, June 13, 1914.
- 795 HAWES, J. B. Frequency of laryngeal tuberculosis in Massachusetts. *Boston Med. and Surg. Jour.*, July 2, 1914.
- *796 HINMAN, E. E. Treatment of tuberculous laryngitis with scarlet red. *Albany Med. Ann.*, p. 78, Feb., 1914.
- 797 HOENSCH. Pre-laryngeal abscess formation after endo-laryngeal operation. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 286, 1914.
- 798 HOPKINS, F. E. Case of papilloma of the larynx treated by radium. *Ann. of Otol.*, p. 875, Dec., 1914.
- 799 HORN, J. Leprosy of upper respiratory tract with report of a case. *Ann. of Otol.*, p. 765, Dec., 1914.
- 800 HOULIE, R. Nature of nerve accidents during and after laryngectomy. Treatment. *Arch. intern. de Laryngol.*, p. 839, May-June, 1914.
- 801 HUMBLET. Case of severe laryngeal stenosis cured by laryngotomy. *Le Scalpel*, March 1, 1914.
- *802 IGLAUER, S. Value of roentgenography in diagnosis of diseases of larynx and trachea. *Jour. A. M. A.*, p. 1827, Nov. 21, 1914.

- 803 IMHOFER, R. Clinical diagnosis of status thymico-lymphaticus with special reference to the laryngoscopic findings. *Ztschr. f. Laryngol.*, Bd. 7, Heft 2, p. 205, 1914.
- 804 IMHOFER, R. Laryngeal phthisis and pregnancy. *Arch. intern. de Laryngol.*, p. 717, May-June, 1914.
- *805 IWANOFF. Extirpation of the arytenoid cartilage in laryngeal stenosis. *Rev. Hebdom. de Laryng. Otol. et de Rhin.*, Feb. 21, 1914.
- *806 IWANOFF. Resection of vocal cords in laryngeal stenosis. *Rev. Hebdom. de Laryng. Otol. et de Rhinol.*, Feb. 28, 1914.
- *807 JACKSON, C. Direct method of intra-laryngeal operation. *Jour. A. M. A.*, p. 1918, Nov. 28, 1914.
- 808 JACQUES, P. Tuberculous tumors of the larynx. *Bull. d'oto-rhino-laryngol.*, p. 200, July, 1914.
- *809 KOECK. Severe non-diphtheritic stenosis of the larynx in children. *Muench. med. Wchnschr.*, Aug. 18, 1914.
- 810 LABARRE, E. Ortner's recurrent paralysis. *Presse Oto-Laryngol.*, No. 2, p. 78, 1914.
- *811 LANNOS and BERIEL. Histologic examination of the laryngeal nerve after alcohol injections. *Rev. hebdom. de Laryngol.*, p. 273, March 7, 1914.
- 812 LASAGNA, F. Laryngeal tuberculosis and pregnancy. *Arch. ital. di Otol.*, No. 1, p. 10, 1914.
- *813 LAUTENSCHLAEGER, E. and ADLER, S. Effect of ultra-violet rays and their therapeutic use in laryngology. *Arch. f. Laryngol.*, Bd. 29, Heft 1, p. 36, 1914.
- 814 LAVRAND, H. Tumor of larynx, laryngo-fissure; cured. *Bull. d'oto-rhino-laryngol.*, p. 227, July, 1914.
- 815 LEDAUX. Secondary carcinoma of the larynx. *Ann. de la policlin. cent.*, Feb., 1914.
- 816 LEVY, R. Significance of laryngeal manifestations during course of pulmonary tuberculosis, based on study of 650 cases. *Iowa State Med. Soc. Jour.*, Dec., 1914.
- 817 LIEBAULT, G. Pre-laryngeal tuberculous adenitis. *Rev. hebdom. de Laryngol.*, p. 1, Jan. 3, 1914.
- 818 LOMBARD, E. Indications and technic of laryngectomy. *Rev. hebdom. de Laryngol.*, p. 689, June 13, 1914.
- 819 LUBLINER, L. Use of arzeno-benzol (606) in cases of scleroma of the upper air tract, in cases of lues and tuberculosis as well as in some cases of doubtful diagnosis. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 417, 1914.
- †820 LYNCH, R. C. New technic for the removal of intrinsic growths of the larynx. *THE LARYNGOSCOPE*, p. 645, July, 1914.
- *821 LYON, J. A. Two hundred and forty-one cases of laryngeal tuberculosis treated at Rutland State Sanatorium. *Boston Med. and Surg. Jour.*, p. 19, July 2, 1914.
- 822 MACKENZIE, D. Laryngectomy after tracheotomy for epithelioma of the larynx. *Arch. intern. de Laryngol.*, p. 94, Jan.-Feb., 1914.
- 823 MASSIE, F. Serious accident in laryngeal intubation. *Arch. ital. di Laryngol.*, p. 1, Jan. 15, 1914.
- §824 MAYER, E. Primary lupus of the larynx. *Med. Rec.*, p. 1162, June 27, 1914; *THE LARYNGOSCOPE*, p. 890, Oct., 1914.

- 825 MCKENZIE, D. Removal of foreign body from larynx by suspension laryngoscopy. *Lancet*, July 4, 1914.
- *826 MINTZ, W. M. Total laryngectomy for cancer. *Russky Vratch*, April 19, 1914.
- 827 MOURE, E. J. Laryngeal trauma. Coup de fouet laryngien. Hemorrhagie, rupture de thyroarytenoïdien ou du crico-thyroïdien. *La Clin.*, p. 644, Oct. 10, 1913.
- 828 MYGIND, S. H. Hematoma laryngis traumaticum. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 68, 1914.
- §829 NICHOLSON, S. Antitoxin given intravenously in laryngeal diphtheria. *Bull. of Med. and Chir. Fac. of Md.*, p. 45, Oct., 1914; *THE LARYNGOSCOPE*, p. 96, Feb., 1915.
- 830 OPPIKOFER, E. 1. Sudden death, due to shock, following food-blocking of laryngeal entrance. 2. Primary carcinoma of the air-tract. *Ztschr. f. Laryngol.*, Bd. 7, Heft 2, p. 243, 1914.
- *831 PUGNAT. Spontaneous cure of a carcinoma of the larynx. *Arch. intern. de Laryngol, d'otol et de-Rhinol.*, p. 761, May-June, 1914.
- 832 RAY, J. M. Cocklebur in larynx. *L'ville Monthly Jour. of Med. and Surg.*, p. 278, Feb., 1914.
- 833 REBUCK, C. S. Diagnosis and treatment of tuberculosis of the larynx. *Med. Council*, p. 10, Jan., 1914.
- 834 REICH, A. Laryngocele. *Beitraege z. klin. Chir.*, Vol. 90, No. 3, p. 515, 1914.
- 835 RICE, G. B. Malignant diseases of the larynx. *Jour. Ophth. Otol. and Laryngol.*, p. 151, April, 1914.
- †836 RICHARDSON, C. W. Laryngitis submucosa subglottica acuta. *THE LARYNGOSCOPE*, p. 658, July, 1914.
- 837 RILEY, F. Membranous non-diphtherial laryngitis. *Brit. Med. Jour.*, p. 177, July 25, 1914.
- 838 SALOMONSEN, K. Chondroma in the larynx. *Hospitalstidende*, Aug. 5, 1914.
- 839 SALOMONSEN, K. Enchondroma of larynx. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 454, 1914.
- 840 SANPIQUET, A. Dysphagia of laryngeal tubercle. *Arch. gen. de Med.*, Jan., 1914.
- 841 SARGNON. Indications and operative technic of laryngectomy in other than malignant tumors. Local anesthetics in laryngectomies. *Rev. hebdom. de Laryngol.*, p. 609, May 23, 1914.
- 842 SARGNON. Parallel laryngostomy with tracheo-cricostomy. Segmentary tracheo-cricoid resection. *Bull. d'oto-rhino-laryngol.*, p. 252, July, 1914.
- 843 SARGNON and TOUBERT, J. Surgical treatment of functional stenosis of the larynx with wheezing. *Ann. des Mal. de l'Oreille*, No. 2, p. 122, 1914.
- 844 SARI, E. Local helio-therapy in treatment of laryngeal tuberculosis. *Rev. hebdom. de Laryngol.*, p. 33, Jan. 10, 1914.
- 845 SAUPIQUE. New method of treating dysphagia in laryngeal tuberculosis. *Arch. gen. de Med.*, Jan., 1914.
- 846 SERAFINI, G. and UFFREDUZZI, O. Nerve grafting for paralysis of the larynx. *Policlin.*, p. 1409, Oct. 4, 1914.

- 847 SEYFFARTH. Direct laryngoscopy and tracheo-bronchoscopy. *Deut. Med. Wchnschr.*, July 2, 1914.
- 848 SCHMIEGELOW, E. Results of operation (laryngo-fissure) for intrinsic cancer of the larynx. *Lancet*, Aug. 1, 1914.
- 849 SCHMIEGELOW, E. Operative treatment from without of intra-laryngeal cancer. Report of thirty-three cases. *Hospitaltidende*, Oct. 7, 1914.
- 850 SHAMBAUGH, G. E. Laryngocele ventricularis. *Trans. Am. Laryngol. Ass'n.*, p. 73, 1914.
- 851 SIEWCZYNSKI, G. Treatment of stenosis of the larynx in childhood. *Monatsch. f. Kinderh.*, Vol. 13, No. 4, 1914.
- 852 SMITH, H. Laryngeal cancer. *N. Y. Med. Jour.*, p. 877, May 2, 1914.
- 853 SMITH, H. Papilloma of the larynx. *Jour. A. M. A.*, p. 2207, Dec. 19, 1914.
- 854 SMITH, H. Plastic operation for the restoration of severed vocal cords; permanent thyroid fistula following attempted suicide with a razor. *N. Y. Med. Jour.*, April 11, 1914.
- 855 SOLENBERGER, A. R. Prophylaxis of laryngeal tuberculosis. *Med. Rec.*, p. 883, May 16, 1914.
- *856 SPIESS, G. and FELDT, A. Gold cantharidin and tuberculosis with especial reference to laryngeal tuberculosis. *Deut. med. Wchnschr.*, March 19, 1914.
- 857 STAUFFER, N. P. Multiple papillomata of vocal cords. *Pa. Med. Jour.*, Sept., 1914.
- 858 STRAUSS, A. Copper chemotherapy in tuberculosis of the upper respiratory passages with inhalations of lecutyl. *Dermatol. Woch.*, No. 34, 1914.
- 859 TAPIA, A. G. Use of local anesthesia in laryngectomy (Gluck method). *Ann. des Mal. de l'Oreille*, No. 2, p. 114, 1914.
- 860 THOMSON, St. C. Contribution to the discussion on the results of operation (laryngo-fissure) for intrinsic cancer of the larynx. *Surg. Gynecol. and Obstetr.*, p. 679, Nov., 1914.
- *861 THOMSON, St. C. Intrinsic cancer of the larynx; complete excision apparently effected by endolaryngeal operation. *Jour. A. M. A.*, p. 989, Sept. 19, 1914.
- *862 THOMSON, St. C. Three years' sanatorium experience of laryngeal tuberculosis. *Brit. Med. Jour.*, p. 801, April 11, 1914.
- 863 THOMSON, W. S. Advantages of intubation of larynx over tracheotomy in laryngeal diphtheria. *Practitioner*, Aug., 1914.
- 864 TOREK, F. Laryngectomy combined with gastrostomy. *Surg. Gynecol. and Obstetr.*, p. 515, April, 1914.
- 865 TORRI, U. L. Cure of laryngeal papillomata with calcium magnesia (Mg. O). *Boll. delle Mal. dell'Orecchio*, No. 11, p. 241, 1914.
- 866 TULEY, H. E. Papilloma of the larynx. *L'ville Monthly Jour. of Med. and Surg.*, p. 83, Aug., 1914.
- 867 UFFENORDE, W. Case of bilateral alcoholic posticus paralysis and a case of bilateral post-diphtheritic paralysis of the recurrent laryngeal nerve. *Ztschr. f. Ohrenh.*, Bd. 72, Heft 1, p. 53, 1914.
- 868 VALENTINE, F. History of laryngology and rhinology. *Zntrbl. f. Ohrenh.*, Bd. 12, Heft 9-10, 1914.

- 869 VAN DE CALSEYDE, J. Lupic stenosis of the larynx cured by laryngostomy and progressive dilatation by means of glass tubes, L-shaped. *Presse Oto-Laryngol. Belge*, No. 3, p. 113, 1914.
- 870 VAN DEN WILDENBERG. Successful surgical interventions in laryngeal tuberculosis. *Presse med. Belge*, March 8, 1914.
- *871 VAN DER BERGH, A. A. H. and WIERSMA, E. D. Meltzer insufflation in internal disease. *Nederl. Tijdschr. v. Geneesk.*, p. 381, Aug. 8, 1914.
- 872 VANDERHOOF, D. A. Injections of alcohol for pain in tubercular laryngitis. *Ill. Med. Jour.*, March, 1914.
- *873 VOISLAWSKY. Excision of the vocal cord for recurrent laryngeal paralysis. *Pa. Med. Jour.*, Nov., 1914.
- 874 VON TOEVOELGYI, E. Action of the colon bacillus in laryngeal tuberculosis. *Monatschr. f. Ohrenhk.*, H. 3, p. 409, 1914; *Monatschr. f. Ohrenhk.*, H. 1, p. 132, 1914.
- *875 WETTERSTAD. Treatment of dysphagia in laryngeal tuberculosis. *Norsk. Mag. f. Lægevidensk.*, No. 1, 1914.
- 876 WILLIAMS, P. W. Treatment of laryngeal tuberculosis by tuberculin. *Bristol-Med.-Chir. Jour.*, June, 1914.
- *877 YORKE, C. Method of anesthetizing the larynx. *Brit. Med. Jour.*, p. 1290, June 13, 1914.

Trachea and Bronchi.

- 878 BAGGERD, F. Tracheotomy. *Med. Klinik*, Jan. 18, 1914.
- *879 BERNARD, L. Tuberculous tracheo-bronchial adenopathy in the adult. *Paris Med.*, April 11, 1914.
- *880 CARROLL. Tracheotomy. *Lancet Clin.*, Aug. 15, 1914.
- 881 CASTELLANI. Foreign bodies in the air passages. *Arch. intern. de Laryngol.*, p. 749, May-June, 1914.
- *882 CURSCHMANN, H. Bronchi-tetany in adults and its treatment with calcium. *Muench. med. Wchnschr.*, p. 289, Feb. 10, 1914.
- 883 DOBERTIN. Emphysema following stenosis of the trachea with goiter. *Deut. med. Wchnschr.*, July, 1914.
- 884 ERNST, G. R. Tuberculosis of tracheo-bronchial lymph-nodes in childhood. *Wis. Med. Jour.*, Sept. 1914.
- 885 FRANCK, O. Transverse tracheotomy. *Muench. med. Wchnschr.*, April 28, 1914.
- 886 FRANKENBERGER, O. Malignant granuloma of the mediastinum penetrating trachea. *Monatschr. f. Ohrenh.*, Heft 2, p. 161, 1914.
- 887 FREUND, A. Tracheopathia osteoplastica. *Passows Beitr.*, Bd. 8, Heft 1-3, p. 11, 1914.
- 888 FREUND, A. Tracheopathia osteoplastica. *Beitr. z. Anat. Physiol., Pathol. u. Therap. des Ohres, Nase u. Halses*, Bd. 8, 1914.
- *889 FISCHER, A. Thymectomy for tracheo-stenosis thymica. *Muench. med. Wchnschr.*, Vol. 61, p. 1173, 1914.
- 890 GAREL, J., GIGNOUX, A. and ARCELIN. Foreign body in left bronchus; harmless extraction with bronchoscopy; three cases. *Lyon Med.*, p. 141, July 26, 1914.
- 891 GIERTZ, K. H. Resection of lobe of lung with hermetic closure of stump of bronchus. *Zentralbl. f. Chir.*, p. 1433, Sept., 1914.

- 892 GIRADET, A. Perforation of tubercle into aorta and into trachea. *Deut. Med. Wchnschr.*, July 8, 1914.
- *893 GODLEE, R. J. Foreign bodies in the air passages. *Can. Pract. and Rev.*, p. 1, Jan. 1914; and *Dom. Med. Monthly*, March, 1914.
- 894 GOOD, R. H. Removal of two nails from the bronchi of a child two years old. *N. Y. Med. Jour.*, p. 364, Aug. 22, 1914.
- 895 GOT. Right and left air passages not independent of each other. *Jour. de Med. de Bordeaux*, Vol. 85, Nos. 23-25, 1914.
- *896 GUISEZ, G. Intrabronchial injections of medicated oil in the treatment of gangrene of the lungs. *Bull. de l'Acad. de Med.*, March 31, 1914.
- 897 HAENISCH. Foreign body in trachea. *Med. Klinik.*, No. 3, 1914.
- 898 HICKS, J. A. B. Pedunculated intra-bronchial tumor (sarcoma) causing bronchiectasis. *Lancet*, May 16, 1914.
- 899 HOMMEL, W. Syphilis of the trachea and bronchi and their diagnosis by means of tracheo-bronchoscopy. *Monatschr. f. Ohrenh.*, Heft 6, p. 783, 1914.
- †900 IGLAUER, S. On the use of electro-magnets in the extraction of metallic bodies from the trachea and bronchi with report of cases. *THE LARYNGOSCOPE*, p. 33, Jan., 1914.
- †901 INGERSOLL, J. M. Primary sarcoma of the trachea. *THE LARYNGOSCOPE*, p. 664, July, 1914.
- 902 JONES, R. L. Ether anesthesia by intra-tracheal method. Report of forty-nine cases. *Lancet*, Nov. 7, 1914.
- 903 KAHLER. Scabbard-trachea and pulmonary emphysema. *Jour. of Laryngol.*, p. 7, Jan., 1914.
- 904 KNEEDLER, G. C. Tracheotomy. *Pittsb. Med. Jour.*, p. 4, Jan., 1914.
- 905 KONJETZNY. Bronchoscopic removal of a safety-pin from the main bronchus. *Med. Klinik.*, No. 3, 1914.
- 906 LANDSBERG, M. Anatomical investigations on tracheopathia chondro-osteoplastica. *Inaug. diss., Berlin*, 1914.
- 907 LEDOUX, L. Stenosis of trachea through vascular ectasy. *Ann. de la Policlin. cntrl.*, Feb., 1914.
- 908 LERCHE, W. Tack in the eparterial branch of the right main bronchus. *Jour. A. M. A.*, p. 2129, Dec. 12, 1914.
- 909 LESCHKE. Tracheal insufflation of oxygen in respiratory paralysis. *Muench. med. Wchnschr.*, June 6, 1914.
- 910 LESCHKE, E. Treatment of respiratory paralysis by intra-trachial insufflation of oxygen. *Muench. med. Wchnschr.*, May 5, 1914.
- 911 LOMBARD, E. and BALDENWECK. Case of fibro-adenoma of the trachea. *Ann. des Mal. de l'Oreille*, No. 5, p. 491, 1914.
- 912 MACNAB, J. C. G. Removal of cartridge from left bronchus. *Med. Jour. of S. Africa*, p. 78, Nov., 1914.
- 913 MART, W. D. Intra-tracheal administration of chloroform. *Lancet*, Nov. 7, 1914.
- 914 MELTZER, S. J. How deep should the tube be introduced in intra-tracheal insufflation? *Jour. A. M. A.*, p. 1547, May 16, 1914.
- 915 MELTZER, S. J. Present status of intra-tracheal insufflation. *Berl. klin. Wchnschr.*, April 20, 1914.
- 916 MENIER, M. Tracheotomy. *Ztschr. f. Laryngol.*, Bd. 7, Heft 2, p. 253, 1914.

- 917 MERLI, F. ZUCCARDI. Tracheal transplantation. *Arch. ital. di. Otol.*, p. 190, June, 1914.
- 918 NIKOLSKY, A. M. Gumma in trachea revealed by tracheoscopy; recovery under specific treatment plus stretching the stenosis. *Russky Vrach.*, April 19, 1914.
- 919 POPE, S. Intratracheal anesthesia. *Cal. State Jour. of Med.*, March, 1914.
- 920 RETHI, A. Foreign bodies in the bronchus. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 303, 1914.
- 921 RICKETTS, B. M. Intra-tracheal insufflation. *Med. Rec.*, p. 505, Sept. 19, 1914.
- 922 RIDDELL, D. F. Complete occlusion of trachea, due to injury to cricoid cartilage after intubation and tracheotomy. *Brit. Jour. Children's Dis.*, Nov., 1914.
- 923 SALLES, J. Bean in bronchus. *Lyon. Med.*, p. 57, July 12, 1914.
- *924 SARGNON. Tracheo-cricostomy. *Lyon. Med.*, April 19, 1914.
- 925 SKILLEEN, R. H. Routine use of tracheo-bronchoscope as diagnostic and therapeutic measure. *Pa. Med. Jour.*, July, 1914.
- 926 SPEDEE and DUBOURG. Tracheo-bronchial adenopathy. *Arch. d'Electr. Med.*, May 25, 1914.
- 927 SURAWSKI, J. Ozena of the trachea. *Medycyna*, No. 2, 1914.
- 928 THOMSON, H. T. and STRUTHERS, F. W. Intra-tracheal insufflation of ether. *Edin. Med. Jour.*, p. 146, Aug., 1914.
- 929 TUFFIER, T. and LOEWY, G. Intra-tracheal insufflation. *Presse Med.*, p. 497, July 1, 1914.
- 930 VAN DER BERGH and WIERSMA, E. D. Life prolonged by intra-tracheal insufflation in a case of cerebellar tumor. *Med. Tydsch. v. Geneesk.*, Vol. 2, No. 6, p. 381, 1914.
- 931 VIERHEILIG, J. Laceration of bronchus from contusion. *Beitr. z. klin. Chir.*, July, 1914.
- 932 WERELIUS, A. Experimental surgery of the heart, lung and trachea. *Jour. A. M. A.*, p. 1338, Oct. 17, 1914.
- 933 WIELAND, E. Broncho-tetany. *Monatschr. f. Kinderh.*, Vol. 13, No. 5, p. 205, 1914.
- 934 YOKOYAMA, Y. Elastic apparatus of tracheo-bronchial tree; its physiologic and pathologic significance. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 389, 1914.
- 935 ZOEPFRETZ. Collar-button in left main bronchus. *Med. Klinik*, No. 3, 1914.

Esophagus.

- 936 ALBRECHT. Pharyngo-esophageal pulsion diverticulum and its operation according to the Goldman method. *Deut. Med. Wchnschr.*, No. 22, p. 1109, 1914.
- 937 AMERSBACH, K. Injury of esophagus in esophagoscopy. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 431, 1914.
- 938 BARRAUD, A. Foreign body in esophagus causing double recurrent paralysis. Removal. Recovery. *Ann. des Mal. de l'Oreille*, No. 3, p. 227, 1914.
- 939 BASSLER, A. New technic of röntgenray examination for early diagnosis of cancer of the esophagus. *Jour. A. M. A.*, p. 1394, May 2, 1914.

- 940 BAUMGARTNER, A. Resection of esophagus for cancer under artificial respiration maintained by motor. *Presse Med.*, Jan. 14, 1914.
- 941 BRAGER, L. R. Another safety-pin in the esophagus. *N. Y. Med. Jour.*, p. 1142, Dec. 5, 1914.
- 942 BREKKE, A. Necrosis of esophagus. *Med. rev.*, No. 4, 1914.
- 943 CAVINA. Ectasia of esophagus. *Bull. delle Sci. Med.*, Feb., 1914.
- 944 CHARLIER. Röntgen diagnosis of foreign bodies in the esophagus. *Jour. de Med. de Paris*, May 23, 1914.
- 945 CHIARI, H. Foreign-body injury of esophagus with perforation of aorta. *Berl. klin. Wchnschr.*, Jan. 5, 1914.
- 946 COATES, G. M. Jackstones impacted in esophagus. Report of three cases. *Arch. of Ped.*, Aug., 1914.
- †947 COBB, E. Good results from use of normal horse serum in a case of hemorrhage from a ruptured esophageal vein. *THE LARYNGOSCOPE*, p. 154, Feb., 1914.
- 948 COCHEZ and ABOLKER, H. Two cases of foreign body in the esophagus removed by esophagoscopy. *Bull. d'oto-rhino-laryngol.*, p. 219, July, 1914.
- 949 CRUMP, A. C. New aid for the diagnosis of stricture of the esophagus. *Jour. A. M. A.*, p. 1471, May 9, 1914.
- 950 DELLA VEDOVA, T. Esophageal affections. *Prat. oto-rino-laringo-iatrica*, April 30-June 30, 1914.
- 951 DOWNIE, W. Esophagotomy for the removal of a tooth plate. *Glasgow Med. Jour.*, p. 424, Dec., 1914.
- 952 DREYER, L. Direct access to upper esophagus. *Zntrbl. f. Chir.*, p. 1177, July 11, 1914.
- 953 FINZI, N. S. Cancer of esophagus treated with radium. *Arch. of Roentgen Ray*, p. 303, Jan., 1914.
- 954 FRANK, S. Bismuth passes into bronchi through perforation in cancerous esophagus. *Arch. f. Verdauungs-Krankh.*, Oct., 1914.
- 955 FRANSCOLLA, W. A. Diverticula of the esophagus, the treatment of cicatricial stenosis of the esophagus. *Chironian*, Vol. 31, p. 110, 1914.
- 956 FRIEDBERG, S. A. Esophagoscopy. *Ann. of Otol.*, p. 123, March, 1914.
- 957 FRUEND, H. Experimental study of transverse resection of the esophagus. *Beitr. z. klin. Chir.*, Vol. 88, No. 3, p. 423, 1914.
- 958 GANTZ, M. Two unusual complications, due to foreign bodies in the esophagus. (1) Purulent meningitis. (2) Phlegmone coli et fistula oesophagi. Remarks on treatment of foreign bodies in esophagus. *Monatschr. f. Ohrenh.*, Heft 2, p. 183, 1914.
- 959 GEPPERT, F. Cardio-spasm and fusiform dilatation of the esophagus. *Zntrbl. f. Grenzgeb. d. Med. u. Chir.*, Feb. 19, 1914.
- 960 GESSELEWITSCH, M. Expulsion of lining of esophagus after drinking acetic acid. *St. Petersburg. med. Ztschr.*, Jan. 14, 1914.
- *961 GREENE, D. C. and GARLAND, F. E. Removal of foreign bodies from esophagus and lower air passages in children. *Boston Med. and Surg. Jour.*, p. 518, April 2, 1914.
- 962 GROBER, J. Acute injury of the esophagus. *Deut. med. Wchnschr.*, p. 2001, Nov. 26, 1914.
- 963 GUISEZ. Case of inflammatory stenosis of the cardia with extensive dilatation of the esophagus in a child of 8 years. *Ann. des Mal. de l'Oreille*, No. 5, p. 516, 1914.

- *964 GUISEZ. Esophageal intubation. *Presse Med.*, Jan. 31, 1914.
- 965 GUISEZ. India-rubber intubation of the esophagus. *Presse Med.*, No. 9, 1914.
- 966 GUISEZ. Foreign bodies of the esophagus and air passages in very young infants. Diagnostic and therapeutic considerations. *Bull. d'oto-rhino-laryngol.*, p. 138, May, 1914.
- *967 GUISEZ. Foreign bodies in upper air passages of young children. *Bull. de la Soc. de Ped.*, March, 1914.
- 968 GUTTMAN, J. Diagnosis of esophageal diseases. *Interstate Med. Jour.*, p. 1003, Sept., 1914.
- 969 HAUCH. Operation for cancer of the lower esophagus. *Beitr. z. klin. Chir.*, June, 1914.
- §970 JANEWAY, H. H. Early symptomatology of cancer of the esophagus. *Am. Jour. Med. Sci.*, p. 583, April, 1914; *THE LARYNGOSCOPE*, p. 80, Feb., 1915.
- *971 JIANU, A. Plastic operations on the esophagus. *Deut. Ztschr. f. Chir.*, p. 397, Oct., 1914.
- 972 KNAPP, M. I. Newer teachings concerning diseases of the gastrointestinal tract—diseases of the esophagus. *N. Y. Med. Jour.*, p. 669, Oct. 3, 1914.
- †973 KYLE, D. B. Removal from the esophagus by means of an esophagoscope of a plate of false teeth embedded for eighteen years. *THE LARYNGOSCOPE*, p. 185, March, 1914.
- 974 LAMBERT, A. V. S. Treatment of diffuse dilatation of esophagus by operation. *Surg. Gynecol and Obstetr.*, p. 1, Jan., 1914.
- §975 LAROZIERE. Spasmodic stricture of the esophagus in an infant of 16 months. *Rev. hebdomadaire de Laryngol.*, p. 380, March 28, 1914; *THE LARYNGOSCOPE*, p. 5421, May, 1914.
- *976 LEWIN, C. Radium treatment of carcinoma of the esophagus and cardia (Zur Radium therapie des Oesophagus und Kardias karzinoms). *Zentralbl. f. Chir.*, p. 1313, Aug. 8, 1914.
- 977 LIEBMANN, E. Expulsion of entire lining of esophagus after drinking lye; two cases; recovery in one. *Med. Klinik*, Jan. 11, 1914.
- 978 LOSEE, J. R. Two cases of esophago-tracheal fistula. *Bull. Lying in Hosp. of City of N. Y.*, Jan., 1914.
- 979 MACKENZIE, G. W. Report of a case with an open safety-pin in the esophagus. *Interstate Med. Jour.*, p. 1084, Oct., 1914.
- 980 MARLOW, F. W. (1) Case of dilatation of the esophagus. (2) Case of stricture of the esophagus with dilatation above the point of stricture. *Can. Lancet*, p. 213, Dec., 1914.
- 981 MARUYAMA, S. Pulsion diverticulum in the esophagus. *Mitt. a. d. Grenzgeb. d. Med. u. Chir.*, Vol. 18, No. 1, p. 1, 1914.
- 982 MCKINNEY, R. Chronic stenosis of esophagus, due to simple inflammation. *Tenn. State Med. Ass'n. Jour.*, April, 1914.
- *983 MEYER, W. Extra-thoracic and intra-thoracic esophago-plasty in connection with resection of the thoracic portion of the esophagus for carcinoma. *Jour. A. M. A.*, p. 100, Jan. 10, 1914.
- 984 MEYER, W. Resection of cardiac section of esophagus for cancer. *Zentralbl. f. Chir.*, p. 1313, Aug. 8, 1914.
- 985 MEYER, W. Resection of lower esophagus for cancer. *Zentralbl. f. Chir.*, p. 49, Jan. 10, 1914.

- 986 MILOVANOVIC, M. Myomas of esophagus and cardia. *Wr. klin. Wchnschr.*, May 28, 1914.
- 987 PIOLLET and RANCOULE. Pin in esophagus. Diagnosis and removal under esophagoscopy. *Arch. intern. de Laryngol.*, p. 514, March-April, 1914.
- 988 PIRRUNG, J. E. Esophago-bronchial fistula. *Lancet-Clin.*, Oct. 24, 1914.
- 989 PONZIO. Fistula between bronchus and esophagus, due to esophageal carcinoma. *Gaz. degli Osped.*, Feb. 22, 1914.
- 990 ROEPKE. Operation for esophago-spasm. *Deut. Gesellsch. f. Chir.*, 1914.
- 991 SAUNDBY, R. Syphilitic paralysis of the esophagus. *Brit. Med. Jour.*, p. 239, Jan. 31, 1914.
- 992 SCHMIDGALL, G. Congenital atresia of esophagus with fistula into trachea. *Arch. f. Kinderh.*, Vol. 64, Nos. 1-2, 1914.
- 993 SCHWERS, H. Improved technic for resection of lower esophagus. *Zntribl. f. Chir.*, p. 801, May 9, 1914.
- 994 SMUKLER, M. E. Cardiospasm with dilatation of the esophagus. *N. Y. Med. Jour.*, p. 772, April 18, 1914.
- 995 STERNBERG, W. Esophagoscopy. *Arch. f. Verdauungs-Kr.*, Dec., 1914.
- 996 STERNBERG, W. Esophagothermia in treatment of stenosis. *Muench. med. Wchnschr.*, Aug. 18, 1914.
- 997 STEWART, W. H. Advanced röntgen technic in diagnosis of esophageal lesions. *Am. Jour. of Roentgenol.*, Oct., 1914.
- *998 ST. PIERRE, E. Foreign bodies in the esophagus. *L'Union Medicale du Canada*, Dec., 1914.
- *999 SYRING. Technical points for plastic operations on the esophagus. *Deut. Ztschr. f. Chir.*, Vol. 128, Nos. 3-4, 1914.
- 1000 UNGER, E. Surgery of intrathoracic cancer of the esophagus. *Arch. f. Klin. Chir.*, Vol. 106, No. 1, 1914.
- 1001 VERBRYCKE, J. R. Esophageal obstruction. *Va. Med. Semi-Monthly*, p. 320, Oct. 9, 1914.
- *1002 VON HACKER, V. Restoration of or substitutes for the esophagus. *Arch. f. klin. Chir.*, Oct., 1914.
- 1003 WALKER, I. J. Spontaneous rupture of the healthy esophagus. *Jour. A. M. A.*, p. 1953, June 20, 1914.
- §1004 WEINGAERTNER, M. Foreign body in the upper air tract and esophagus. *Ztschr. f. Laryngol.*, Bd. 7, Heft 3, p. 333, 1914; *THE LARYNGOSCOPE*, p. 994, Dec., 1914.
- §1005 WILE, U. J. Syphilis of the esophagus. *Am. Jour. Med. Sci.*, p. 180, Aug., 1914; *THE LARYNGOSCOPE*, p. 884, Oct., 1914.
- 1006 WILENSKY, N. Esophagectomy and esophagoto-plastic in high esophageal carcinoma. *Wr. klin. Rundschau*, No. 5, 1914.
- 1007 WILMANN, R. Access to thoracic esophagus. *Zntribl. f. Chir.*, Aug. 8, 1914.
- *1008 WOKCHLIN, E. Rare disease of the esophagus. *Corresp.-Bl. f. Schweizer Aerzte*, Aug. 20, 1914.
- 1009 ZACHARIAE, P. Lye injury of esophagus. *Hospitalst.*, July 28, 1914.

Asthma.

- 1010 ABBOTT, N. J. Bronchial asthma and the relation of nasal conditions to it. *Ann. of Otol.*, p. 83, March, 1914.
- 1011 ALEXANDER, I. H. Phylacogen in the treatment of hay-fever and asthma. *Pittsburgh Med. Jour.*, p. 14, June, 1914.
- 1012 ANDREWS, E. W. Chondrectomy or operative treatment of bronchial asthma. *Jour. A. M. A.*, p. 1065, Sept. 26, 1914.
- 1013 BAAR. Bronchial asthma and the barometer. *Wr. klin. Wchnschr.*, Nos. 29-30, 1914.
- 1014 BOURGEOIS, H. Tracheo-bronchial injections in treatment of asthma. *Bull. de l'Acad. de Med.*, April 21, 1914.
- 1015 CIGNOUX, A. Endobronchial treatment of asthma and chronic bronchial affections. *Oto-rhino-laryngol. intern.*, No. 2, 1914.
- 1016 DAVIS, B. C. Clinical study of asthma. *Jour. A. M. A.*, p. 1006, March 28, 1914.
- 1017 DUDLEY, W. H. Nasal conditions causing asthma. *Cal. State Jour. of Med.*, Nov., 1914.
- §1018 GOODALE, J. L. Anaphylactic reactions occurring in horse asthma diphtheria antitoxin. *Boston Med. and Surg. Jour.*, May 28, 1914; *THE LARYNGOSCOPE*, p. 320, May, 1915.
- 1019 GOODALE, J. L. Studies regarding anaphylactic reactions occurring in horse asthma and allied conditions. *Ann. of Otol.*, p. 273, June, 1914.
- 1020 GROSSMANN, M. Experimental examination of nasal asthma. *Wr. klin. Wchnschr.*, No. 22, 1914.
- 1021 HERTZ, A. F. Adrenalin in asthma. A personal experience. *Brit. Med. Jour.*, p. 965, May 2, 1914.
- 1022 HOFBAUER. Combination therapy of bronchial asthma. *Deut. med. Wchnschr.*, No. 22, p. 1106, 1914.
- §1023 HOFBAUER, L. Exercises to strengthen expiration in treatment of asthma. *Deut. med. Wchnschr.*, May 28, 1914; *THE LARYNGOSCOPE*, p. 729, Aug., 1914.
- 1024 JEPSEN, G. Acetyl-salicylic acid in treatment of asthma. *Ugeschr. f. Leger.*, p. 1449, Aug. 20, 1914.
- 1025 JOPPICH, O. Treatment of asthma. *Beitr. z. klin. der Tuberk.*, Vol. 31, No. 2, 1914.
- 1026 KEIPER, G. F. Bronchoscopic treatment of spasmodic asthma. *Ann. of Otol.*, p. 53, March, 1914.
- 1027 MAYER, A. Relation of atypical gout to asthma and pulmonary tuberculosis. *Berl. klin. Wchnschr.*, Aug. 10, 1914.
- 1028 MIDDLEMISS, J. E. Case of bronchial asthma associated with pregnancy, treated by hypnotism. *Brit. Med. Jour.*, p. 194, Jan. 24, 1914.
- 1029 MISSILDINE, J. G. Horse asthma. *N. Y. Med. Jour.*, p. 825, Oct. 24, 1914.
- 1030 MORGAN, H. J. Thymic asthma. *O. State Med. Jour.*, p. 519, Sept., 1914.
- 1031 MORGAN, H. J., and DACTLER, H. W. Thymic asthma successfully treated by X-rays. *Surg. Gynecol. and Obstetr.*, p. 781, Dec., 1914.
- 1032 PATTON, W. T. Asthmatic attacks, due to irritation of buried tonsils. *Jour. A. M. A.*, p. 205, Jan. 17, 1914.

- †1033 PATTON, W. T. A few interesting points in regard to bronchial asthma and report of a very severe case cured by intra-nasal surgery. *THE LARYNGOSCOPE*, p. 982, Dec., 1914.
- 1034 SCHLESINGER, E. Endobronchial treatment of bronchial asthma. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 310, 1914.
- 1035 SOURDILLE. Endobronchial treatment of asthma. *Presse Med.*, Feb. 14, 1914.
- 1036 SOURDILLE, M. Local treatment of asthma. *Presse Med.*, Feb. 14, 1914.
- 1037 TALBOT, F. B. Asthma in children, its relation to "egg poisoning." *Boston Med. and Surg. Jour.*, Nov. 5, 1914.
- 1038 WEBER, E. Experimental asthma. *Med. Klinik.*, Jan. 18, 1914.
- 1039 WICART. New theory of asthma and hay-fever. *Therapy. Clinique*, Feb., 1914.
- 1040 WYDAL, F., LERMOYER, P., ABRAMI, BRISAUD, and JOLTRAIN, E. Phenomena of anaphylaxis factor in asthma. *Presse Med.*, Vol. 22, Nos. 55-56, p. 525, 1914.
- 1041 WINTER. Mechanism of attack of asthma. *Med. Klinik.*, Aug. 2, 1914.

Endoscopy.

- 1042 BOTY, R. Esophagoscopy and tracheo-bronchoscopy in the forward position. *Rev. de Cien. Med. de Barcelona*, Jan., 1914; *Arch. de Rinol.*, p. 18, Jan.-March, 1914.
- †1043 CARPENTER, E. W. Broncho-esophagoscopy. *THE LARYNGOSCOPE*, p. 534, May, 1914; and *S. Med. Jour.*, July, 1914.
- 1044 HUBBARD, T. Endoscopy as applied in laryngology. *O. State Med. Jour.*, Jan., 1914.
- 1045 INGALS, E. F., and FRIEDBERG, S. A. Fluoroscopic bronchoscopy. *Jour. A. M. A.*, p. 610, Feb. 21, 1914.
- 1046 JACKSON, C. Limitations of bronchoscopy. *Trans. Am. Laryngol. Ass'n.*, p. 51, 1914.
- 1047 JACKSON, C. Peroral endoscopy and laryngeal surgery. *Arch. intern. de Laryngol.*, p. 649, May-June, 1914.
- 1048 JACQUES. Supplementary bronchoscopy for foreign bodies. *Rev. med. de l'Est*, Feb. 25, 1914.
- 1049 JOHNSTON, R. H. Straight direct laryngoscopy, bronchoscopy and esophagoscopy. *Am. Jour. of Surg.*, Feb.-Oct., 1914.
- 1050 KACHELMACHER, C. Direct laryngoscopy and bronchoscopy. *Jour. Lancet*, Aug. 15, 1914.
- 1051 KAEMPFER, L. G. Suspension laryngoscopy in ambulatory patients. *Am. Jour. of Surg.*, p. 418, Nov., 1914.
- 1052 LAYMAN, D. W. Direct laryngoscopy, bronchoscopy and esophagoscopy, with modified Bruening's bronchoscope. *Ind. State Med. Ass'n. Jour.*, p. 397, Sept., 1914.
- †1053 LEVY, R. Suspension laryngoscopy in children. *THE LARYNGOSCOPE*, p. 936, Nov., 1914.
- 1054 LOCKARD, L. B. Suspension laryngoscopy. *Colo. Med.*, p. 179, May, 1914.

- 1055 MANN, R. H. T. Bronchoscopy with tracheotomy. *Tex. State Jour. of Med.*, Nov., 1914.
- 1056 MARX, H. Bronchoscopy. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 91, 1914.
- †1057 RIPATH, R. F. Routine use of the bronchoscope in the out-patient department. *THE LARYNGOSCOPE*, p. 942, Nov., 1914.
- †1058 SCHOONMAKER, P. Use of the bronchoscope in direct examination of the larynx, trachea, bronchi and esophagus. *THE LARYNGOSCOPE*, p. 667, July, 1914.

V. DIPHTHERIA AND THYROID GLAND.

Diphtheria.

- 1059 ABRAMOW, S. Changes in the hypophysis in experimental diphtheria. *Virchows Arch.*, Vol. 214, No. 3, 1914.
- 1060 ADKINS, W. N. Intubation in diphtheria. *Ga. Med. Ass'n. Jour.*, Feb., 1914.
- 1061 ALBERT, H. Period of incubation of diphtheria cultures. *Am. Jour. Pub. Health*, Aug., 1914.
- 1062 ALBER, K. Intravenous antitoxin in diphtheria. *Jahrb. f. Kinderh.*, Sept., 1914.
- 1063 BACHAUER. Prophylaxis of diphtheria. *Muench. med. Wchnschr.*, March 17, 1914.
- 1064 BAKKER, C. Diphtheria and the school. *Nederlandsch Tijdschr. v. Geneesk.*, Vol. 2, Nos. 21-25, 1914.
- 1065 BARTON, W. M. Post-diphtheritic paralysis apparently cured by 60,000 units of antitoxin. *N. Y. Med. Jour.*, p. 660, Oct. 3, 1914.
- 1066 BASSI, N. Preventive diphtheria antitoxin treatment. *Gaz. degli Osped. e delle Clin.*, Vol. 35, 1914.
- 1067 BAUER, J. Vaccination against diphtheria. *Deut. med. Wchnschr.*, March 19, 1914.
- 1068 BENDIX, B. Diphtheria. *Med. Klinik*, p. 795, May 10, 1914.
- 1069 BEYER, W. Acute fetid diphtheritic bronchitis. *Muench. med. Wchnschr.*, Jan. 6, 1914.
- 1070 BOMSTEIN, I. Prophylaxis of diphtheria. *Pediatrics*, Vol. 6, No. 1, 1914.
- 1071 BRAUN, W. Importance of preventive antitoxin treatment of diphtheria. *Deut. med. Wchnschr.*, June 4, 1914.
- 1072 BROWN, H. R., and SMITH, T. Two "atoxic" strains of diphtheria bacilli. *Jour. Med. Research*, July, 1914.
- 1073 BUESING, E. Addition of oxgall to Loeffler serum medium for culture of diphtheria bacilli. *Deut. med. Wchnschr.*, March 5, 1914.
- 1074 BIERNACKI, J. Common mode of deferred death after tracheotomy for laryngeal diphtheria (tracheal mucus plug). *Lancet*, July, 11, 1914.
- 1075 BUTTERMILCH, W. Nasal diphtheria in infants. *Deut. med. Wchnschr.*, March 19, 1914.
- 1076 CABRERA, R. Diphtheria; analysis of 3,000 cases. *Sem. Med.*, p. 173, Jan. 22, 1914.

- 1077 CARAFOLI, A. Post-diphtheric polyneuritis. *Gaz. degli Osped. e delle Clin.*, p. 1925, Nov. 12, 1914.
- 1078 CELEN, W. Metastatic obstruction of the esophagus by false membrane in fatal case of diphtheria. *Ztschr. f. klin. Med.*, Vol. 80, Nos. 5-6, 1914.
- 1079 CUNO, F. Anaphylaxis in repeated injections of diphtheria anti-toxin. *Deut. med. Wchnschr.*, May 14, 1914.
- 1080 DOYLE, J. A. Diphtheria. *Pa. Med. Jour.*, Aug., 1914.
- 1081 DREYFUS, G. L., and SCHUERER, I. Post-diphtheric polyneuritis cured by tonsillectomy. *Med. Klinik*, June 7, 1914.
- 1082 DEIST. Carriers in diphtheria. *Beitr. z. klin. d. Infektionsk.*, Bd. 2, Heft 3, 1914.
- 1083 FENNELL, E. A. Quarantine in diphtheria. *Lancet-Clinic*, March 14, 1914.
- 1084 FRIEDLAENDER, P. Post-diphtheric polyneuritis in physician with pains, ataxia and paralysis, inability to practice for nine months. *Berl. klin. Wchnschr.*, Aug. 17, 1914.
- 1085 FROTHINGHAM, C. Glomerular and arterial lesion produced in rabbit's kidneys by diphtheria toxin. *Jour. Med. Research*, July, 1914.
- 1086 GOTTSTEIN, A. Diphtheria in the school. *Deut. med. Wchnschr.*, Feb. 26, 1914.
- 1087 GOLTZ, E. V., and BRODIE, W. D. Results from use of living lactic acid bacilli on diphtheritic-throats in two groups of cases. *Jour. A. M. A.*, p. 1779, June 6, 1914.
- 1088 GROTE, L. R. Some advances in bacteriology of diphtheria. *Fortschr. d. Med.*, No. 9, 1914.
- 1089 GUNSON, E. B. Cardiac arrhythmia in diphtheria. *Brit. Jour. Children's Dis.*, Sept., 1914.
- 1090 HAGEMANN, R. Von Behring's new diphtheria prophylactic. *Berl. klin. Wchnschr.*, May 18, 1914.
- 1091 HAHN, B. and SOMMER, F. Behring's method of vaccination against diphtheria. *Deut. med. Wchnschr.*, Jan. 1, 1914.
- 1092 HALL, G. C. Post-diphtheritic paralysis. *Ky. Med. Jour.*, March 15-April 1, 1914.
- 1093 HEURLIN, M. Differential cultivation of true and false diphtheria bacilli. *Muench. med. Wchnschr.*, March 3, 1914.
- 1094 HOLM, V. Spread of diphtheria by milk. *Ugeskr. f. Leger.*, Oct. 29, 1914.
- 1095 HUME, W. E., and CLEGG, S. J. Clinical and pathologic study of heart in diphtheria. *Qr. Jour. of Med.*, p. 1, Oct., 1914.
- 1096 JERVIS, J. J., and MARTYN, V. C. Treatment of diphtheria. *Practitioner*, Aug., 1914.
- 1097 JERVIS, J. J. Two cases of diphtheria with unusual complications. *Brit. Med. Jour.*, p. 859, April 18, 1914.
- 1098 JOSEPH, K. Anaphylaxis in the treatment of diphtheria and its prevention. *Deut. Med. Woch.*, March 12, 1914.
- 1099 KASSOWITZ, K. Prophylaxis of diphtheria. *Muench. med. Wchnschr.*, Sept. 15, 1914.
- 1100 KINLOCH. Excretion of urinary solids in nephritis of scarlet fever and diphtheria. *Jour. Pathol. and Bact.*, Vol. 19, p. 77, 1914.

- 1101 KOBRAK, E. Diphtheric process without membrane. *Med. Klinik*, March 8, 1914.
- 1102 KRAGH, J. R. Negative results of electrophoresis in attempt to eradicate diphtheria bacilli from tonsils. *Ugeskr. f. Leger*, May 21, 1914.
- 1103 LANFORD, J. A. Diphtheroid organisms isolated from lymphadenomatous structures of the body. *Am. Jour. Trop. Dis. and Prev. Med.*, Sept., 1914.
- *1104 LIEDTKE, and VOELCKEL. Diphtheria bacilli may penetrate all the organs. *Deut. med. Wchnschr.*, March 19, 1914.
- 1105 LUCKEY, J. E. Physician's relation to public health, report on diphtheria epidemic. *Iowa State Med. Soc. Jour.*, p. 413, Dec., 1914.
- 1106 MACCALLUM, W. G. Mechanism of circulatory failure in diphtheria. *Am. Jour. Med. Sci.*, p. 37, Jan., 1914.
- 1107 MACFARLAN, D. Case of diphtheria treated with potentized antitoxin. *Jour. Ophth. Otol. and Laryngol.*, p. 256, June, 1914.
- 1108 McLAIN, W. H. Diphtheria. *W. Va. Med. Jour.*, Jan., 1914.
- 1109 MEIGIAS. Malignant, extremely toxic diphtheria. *Rev. espan. de Laringol.*, Jan.-Feb., 1914.
- *1110 MILLER, H. R. Preliminary report on a method of treatment for diphtheria carriers. *Med. Rec.*, p. 158, July 25, 1914.
- 1111 MOL, C. M. Pseudo-diphtheria bacilli. *Ned. Tijdschr. v. Geneesk.*, Vol. 2, No. 19, 1914.
- 1112 OTTO, R. Diphtheria antitoxin in bacilli-carriers. *Deut. med. Wchnschr.*, March 12, 1914.
- *1113 NICHOLSON, S. T., and HOGAN, J. F. Effect of lactic acid bacilli on diphtheria. *Jour. A. M. A.*, p. 510, Feb. 14, 1914.
- *1114 PARK, W. H., ZINGHER, A., and SEROTA, M. H. Active immunization in diphtheria and treatment by toxin-antitoxin. *Jour. A. M. A.*, p. 859, Sept. 5, 1914.
- 1115 RENAULT, J., and LEVY, P. P. Diphtheria bacilli carriers. *Arch. de Med. des Enf.*, p. 641, Sept., 1914.
- 1116 RIEBOLD, G. Danger from diphtheria bacilli carriers. *Muench. med. Wchnschr.*, April 28, 1914.
- 1117 ROEMER, P. H. Transformation of diphtheria bacilli. *Berl. klin. Wchnschr.*, March 16, 1914.
- *1118 ROHMER, P. Effectual inoculation against diphtheria. *Berl. klin. Wchnschr.*, p. 1349, July 20, 1914.
- 1119 ROLLESTON, J. D., and MACLEOD, C. Intra-muscular injections of antitoxin in the treatment of diphtheria. *Brit. Jour. of Children's Dis.*, p. 289, July, 1914.
- 1120 ROSE, J. A. Mixed infection—diphtheria and scarlet fever. *West. Med. News*, Nov., 1914.
- 1121 ROSENOW, E. C. Local infection, due to intravascular dissemination of bacteria: the association of diphtheroid bacilli with various disease conditions. *Surg. Gynecol. and Obstetr.*, p. 403, April, 1915.
- 1122 RUPPEL, W. G. History of antitoxin treatment of diphtheria. *Deut. med. Wchnschr.*, March 19, 1914.
- 1123 SANTALO, R. Diagnosis and treatment of diphtheria. *Arch. intern. de Laryngol.*, March-June, 1914.

- 1124 SCHMIDT-HACKENBERG. Primary nasal diphtheria in children. *Passows Beitr.*, Bd. 8, Heft 1-3, p. 1, 1914.
- 1125 SCHORER, E. H. Intravenous injection of diphtheria antitoxin in children. *Am. Jour. Dis. of Children*, Jan., 1915.
- *1126 SCHREIBER, E. Active immunization against diphtheria. *Ther. d. Gegenw.*, p. 97, March, 1914.
- 1127 SIMPSON, V. E. Case of diphtheria with recurrence and fatal termination. *Ky. Med. Jour.*, Oct. 15, 1914.
- 1128 TEN BROECK, L. L. Extirpation of bacillus diphtheriae by means of a thallophytic fungus, achlya muscaris. Clinical and experimental study. *Med. Rec.*, p. 49, Jan. 10, 1914.
- 1129 THOMAS, A. H. Iodin applications in diphtheria and scarlet fever. *Brit. Med. Jour.*, p. 85, Jan. 10, 1914.
- †1130 THOMAS, J. J. Report of eleven cases of diphtheria and pseudo-diphtheria infection in the mastoid wound. *THE LARYNGOSCOPE*, p. 219, March, 1914.
- 1131 TUDOR, T. J. Treatment of diphtheria. *N. Y. Med. Jour.*, p. 885, May 2, 1914.
- 1132 USPENSKY, N. I. Diphtheria bacilli carriers. *Med. Obozrient*, Vol. 80, No. 15, 1914.
- 1133 USTVEDT, Y. Diphtheria infection through milk. *Med. rev.*, No. 5, 1914.
- 1134 VAN'T HOFF, G. Diphtheria bacilli carriers. *Monatschr. f. Kinderh.*, p. 113, July, 1914.
- 1135 VEAU, V., and WEBER. Gangrene of the foot in diphtheria. *Bull. de la Soc. de Ped.*, March, 1914, and *Ann. de Med. et. Chir. Inf.*, May 15, 1914.
- 1136 VEEDER, B. S. Active immunization against diphtheria by means of von Behring's vaccine and the diphtheria toxin skin reaction. *Am. Jour. Dis. of Children*, Aug., 1914.
- 1137 VOJNOFF, B. N. Klebs-Loeffler bacilli in the clinical diagnosis of diphtheria. *Roussky Vrach*, March 15, 1914.
- 1138 VON BEHRING, E., and HAGEMANN, R. Behring's method of vaccinating against diphtheria. *Berl. klin. Wchnschr.*, p. 917, May 18, 1914.
- 1139 VON BOKAY, Z. Peculiar form of the gums in two infants. *Ztschr. f. Kinderh.*, p. 191, June, 1914.
- 1140 WAITE, H. H. Milk-borne epidemic of diphtheria. *Am. Jour. Pub. Health*, May, 1914.
- †1141 WEIL, A. I. Use of vaccines in the treatment of chronic diphtheria carriers. *THE LARYNGOSCOPE*, p. 804, Sept., 1914, and *N. Orleans Med. and Surg. Jour.*, Nov., 1914.
- 1142 WERLEY, G. Bacillus bulgaricus in diphtheria. *N. Mex. Med. Jour.*, May, 1914.
- 1143 WOEBACH, S. B. and HONEIJ, J. A. Diphtheroid bacillus from leprosy lesions. *Jour. Med. Research*, p. 1, March, 1914.
- 1144 WOODY, S. S. Use of antitoxin in diphtheria. *Jour. A. M. A.*, p. 861, Sept. 5, 1914.
- 1145 ZONDEK, H. Serum from rabbits treated with diphtheria toxin and its action on the blood pressure of normal rabbits. *Ztschr. f. Klin. Med.*, Vol. 81, Nos. 1-2, 1914.

Thyroid Gland.

- 1146 ABRAHAM, R. Medical management of exophthalmic goiter. *Med. Rec.*, p. 1122, June 20, 1910.
- 1147 ACH, A. Technic for operating on the enlarged thyroid. *Beitr. z. klin. Chir.*, Vol. 93, No. 2, 1914.
- 1148 ALEXANDER, I. H. Thyroid heart. *Pittsburgh Med. Jour.*, p. 17, April, 1914.
- 1149 ASCH, R. Accessory thyroid at base of tongue. *Deut. Ztschr. f. Chir.*, Aug., 1914.
- 1150 AUSTIN, L. B. Surgery of thyroid. *Miss. Med. Monthly*, p. 167, Jan., 1914.
- 1151 BAINBRIDGE, W. S. Effects of goiter operations upon mentality. *Am. Medicine*, p. 226, April, 1914.
- 1152 BAINBRIDGE, W. S. Present status of surgery of systemic goiter. *Mich. State Med. Soc. Jour.*, p. 211, April, 1914.
- 1153 BALFOUR, D. C. Advantages of double resection in certain types of goiter. *Ann. of Surg.*, May, 1914.
- 1154 BALL, C. F. Clinical application of Abderhalden's reaction to enlargements of the thyroid (author's technic). *Interstate Med. Jour.*, p. 1077, Oct., 1914.
- 1155 BARKER, L. F. Diagnosis and treatment of commoner thyroopathies. *South. Med. Jour.*, p. 1, Jan., 1914.
- 1156 BARR, J. On functions of thyroid, supra-renal and pituitary glands. *Practitioner*, p. 457, April, 1914.
- 1157 BARR, J. Some remarks on the functions of the thyroid, supra-renal and pituitary glands. *Am. Med.*, p. 260, April, 1914.
- 1158 BAUER, J. Tardy coagulation of blood with endemic goiter. *Ztschr. f. klin. Med.*, Vol. 79, Nos. 1-2, 1914.
- *1159 BEEBE, S. P. Relation of pathologic conditions in the nose and throat to the origin and treatment of hyperthyroidism. *Jour. A. M. A.*, p. 769, Aug. 29, 1914.
- 1160 BEEBE, S. P. Treatment of hyperthyroidism by an antiserum. *Am. Medicine*, p. 239, April, 1914.
- 1161 BEESON, C. F. Thyroid gland in pellagra. *Jour. A. M. A.*, p. 2129, Dec. 12, 1914.
- 1162 BERGEIM, O., STEWART, F. T., and HAWK, P. B. Calcium metabolism after thyroparathyroidectomy. *Jour. of Exp. Med.*, Sept., 1914.
- 1163 BERTELLI, G. Behavior of vegetative nervous system and blood producing apparatus after removal of thyroid. *Gaz. degli Osped. e delle Clin.*, Vol. 35, Nos. 13-15, p. 129, 1914.
- 1164 BIGLER, W. Heart disturbances with endemic goiter. *Beitr. z. klin. Chir.*, Vol. 89, 1914.
- 1165 BIRCHER, E. Endemic goiter. *Corresp.-Bl. f. Schweizer Aerzte*, July 18, 1914.
- 1166 BALLARD, I. W. Hyperthyroidism. *Med. Rec.*, p. 626, Oct. 10, 1914.
- 1167 BIRCHER, E. Goiter. *Beitr. z. klin. Chir.*, Vol. 89, No. 1, p. 1, 1914.
- 1168 BIRDSALL, E. Hyperthyroidism, its control by the rentgen ray. *N. Y. Med. Jour.*, p. 1032, May 23, 1914.
- 1169 BOSSART, A. Goiter operations. *Beitr. z. klin. Chir.*, Vol. 89, No. 1, 1914.

- 1170 BOVAIRD, D. Medical treatment of exophthalmic goiter. *Therap. Dig.*, p. 80, May, 1914, and *Med. Fortnightly*, p. 311, Sept., 1914.
- 1171 BRENIZER, A. G. Treatment of goiter and hyperthyroidism. *O. Dom. Jour. of Med. and Surg.*, July, 1914.
- 1172 BRENIZER, A. G. Types and symptoms of goiter and hyperthyroidism. *Old. Dom. Jour. of Med. and Surg.*, p. 281, June, 1914.
- 1173 BROWN, J. R. Causation and prevention of goiter. *N. W. Medicine*, Dec., 1914.
- 1174 BRUENGER, H. Chronic thyroiditis and exophthalmic goiter. *Mitteil. a. d. Grenzgeb. d. Med. u. Chir.*, Vol. 28, No. 2, 1914.
- 1175 BUFORD, C. G. Simple goiter compensatory hypertrophy; its symptoms and relation to other clinical types. *Ill. Med. Jour.*, July, 1914.
- 1176 CAMERON, A. T. Iodin content of thyroid and of some bronchial cleft organs. *Jour. Biol. Chem.*, Jan., 1914.
- 1177 CAMPBELL. Goiter in life insurance. *Lancet-Clinic*, Aug. 15, 1914.
- 1178 CAVILLI, U. Woody phlegmon and inflammation of the thyroid. *Rif. Med.*, p. 785, July 18, 1914.
- *1179 CARMICHAEL, F. A. Chronic malignant degeneration of the thyroid. *Jour. A. M. A.*, p. 32, Jan. 3, 1914.
- 1180 CHAVANNAZ and LOUBAT. Sarcoma of the thyroid. *Jour. de Med. de Bordeaux*, p. 141, March, 1914.
- 1181 CHURCHILL, C. H. Study of parathyroids. *Iowa State Med. Soc. Jour.*, Aug., 1914.
- 1182 CHVOSTEK, F. Pathogenesis of exophthalmic goiter. *Wr. klin. Wchnschr.*, p. 141, Feb. 12, 1914.
- 1183 CLARK, O. Exophthalmic goiter as a clinical manifestation of hereditary syphilis. *Jour. A. M. A.*, p. 1167, April 11, 1914.
- 1184 CLAUDE, H., and ROUILLARD, J. Deformities and rachitis in rabbits born of thyroidectomized parents. *Presse Med.*, p. 221, March 21, 1914.
- 1185 CLAUDE, H., and ROUILLARD, J. Rachitis in offspring of thyroidectomized rabbits. *Presse Med.*, March 21, 1914.
- 1186 COBB, I. G. Case of hypothyroidism in a male. *Brit. Med. Jour.*, p. 1349, June 20, 1914.
- 1187 CRONE, E. Metastasis of goiter tissue. *Beitr. z. klin. Chir.*, July, 1914.
- *1188 CURSCHMANN, H. Diarrhea of thyroid origin. *Arch. f. Verdauungs-Krankh.*, p. 1, Feb., 1914.
- 1189 DE FRANCISCO, G. Strumectomy without narcosis. *Prat. oto-rino-laringoiatrica*, May 31-June 30, 1914.
- 1190 DESBOUIS, G. Enteralgic attacks in exophthalmic goiter. *Bull. et mem. Soc. Med. des Hop. de Paris*, May 7, 1914.
- 1191 DICK, J. L. Some signs and symptoms of hypothyroidism in school children. *Lancet*, Sept. 5, 1914.
- 1192 DIETERLE, T., HIRSCHFELD, L., and KLINGER, R. Etiology of goiter. *Corresp.-Bl. f. Schweizer Aerzte*, Vol. 44, Nos. 20-22, 1914.
- 1193 EDGEWORTH, F. H. Tachycardia in association with parenchymatous goiter. *Bristol Med.-Chir. Jour.*, June, 1914.
- 1194 ELLINGWOOD, F. Deficient secretion of thyroid gland. Hypothyroidism. *Elling. Ther.*, p. 4, Jan., 1914.

- 1195 ENGLAENDER, M. Case of morbus Basedowii improved by use of thymin. *Wr. klin. Wchnschr.*, No. 6, 1914.
- 1196 ENGEL, K., and HOLITSCH, R. Differential diagnosis of substernal goiter. *Wr. klin. Wchnschr.*, April 23, 1914.
- 1197 EPPLEN, F. Medical treatment of goiter. *N. W. Medicine*, Dec., 1914.
- 1198 FARRANT, R. Causation, prevention and cure of goiter, endemic and exophthalmic. *Brit. Med. Jour.*, p. 107, July 18, 1914.
- 1199 FARRANT, R. Pathological changes of thyroid in disease. *Brit. Med. Jour.*, p. 470, Feb. 28, 1914.
- 1200 FENGER, F. Influence of pregnancy and castration on iodine and phosphorus metabolism of thyroid. *Jour. Biol. Chem.*, Feb., 1914.
- 1201 FITZ, R. Certain aspects of medical history of exophthalmic goiter. *Boston Med. and Surg. Jour.*, April 30, 1914.
- 1202 FONTAINE, B. W. Medical treatment of exophthalmic goiter. *Miss. Med. Monthly*, Feb., 1914.
- 1203 FOWLER, R. S. Exophthalmic goiter. *N. Y. Med. Jour.*, p. 949, Nov. 14, 1914.
- 1204 FRASER, A. Exophthalmic goiter; its pathology. *L. Island Med. Jour.*, Sept., 1914.
- 1205 FRAZIER, C. H. Review of 100 consecutive operations for goiter. *Ann. of Surg.*, Nov., 1914.
- 1206 FREEMAN, L. Use of wire tourniquet in operations for goiter. *Surg. Gynecol. and Obstetr.*, p. 110, July, 1914.
- 1207 FREY, H. Treatment of myxedema. *Mitteil. a. d. Grenzgeb. d. Med. u. Chir.*, Vol. 28, No. 2, 1914.
- 1208 GARA, S. Thyroid treatment of chronic joint disease. *Med. Klinik*, May 17, 1914.
- 1209 GILLMAN, T. X-rays in the treatment of Graves' disease. *Dublin Jour. Med. Sci.*, Nov., 1914.
- 1210 GOETZKY, F., and WEIHE, F. Transverse striation in roentgen picture in myxedema. *Ztschr. f. Kinderh.*, May, 1914.
- 1211 GOOD, W. H. Hyperthyroidism—its etiology and symptomatology. *Arch. of Diag.*, Jan., 1914.
- 1212 GOODALL, A. Note on the prescribing of thyroid substance. *Brit. Med. Jour.*, p. 1351, June 20, 1914.
- 1213 GOURDON, J., and DIJONNEAU, H. Scoliosis and hypothyroidism. *Rev. d'Orthop.*, Jan., 1914.
- *1214 GLASERFELD, D. Operative treatment of exophthalmic goiter. *Mitt. a. d. Grenzgeb. d. Med. u. Chir.*, Vol. 18, No. 1, 1914.
- 1215 GRASSI, B. Etiology of goiter, cretinism and deaf mutism. *Tumori*, p. 1, July-Aug., 1914.
- 1216 GREENWALD, I. Supposed relation between paralysis agitans and insufficiency of the parathyroid glands. *Am. Jour. Med. Sci.*, p. 225, Feb., 1914.
- 1217 GRUBB, A. B. Thyroid therapy. *Va. Med. Semi-Monthly*, p. 271, Sept. 11, 1914.
- *1218 GRUMME. Lack of or excess of iodine as factor in thyroid disease. *Berl. klin. Wchnschr.*, April 20, 1914.
- 1219 GUTHRIE, D. Surgical treatment of exophthalmic goiter. *Pa. Med. Jour.*, p. 687, June, 1914.

- 1220 HAGGARD, W. D. Growths and syndromes of thyroid requiring operation. *South. Med. Jour.*, April, 1914.
- 1221 HALL, D. C. Prevalence and distribution of goiter in State of Washington. *N. W. Medicine*, Dec., 1914.
- 1222 HALL, D. C. Prevalence of goiter in north-west. *N. W. Med.*, p. 189, July, 1914.
- 1223 HALSTED, W. S. Reconsideration of question of experimental hypertrophy of the thyroid gland and the effect of excision of this organ upon other of the ductless glands. *Am. Jour. Med. Sci.*, p. 56, Jan., 1914.
- *1224 HALSTED, W. S. Significance of thymus in exophthalmic goiter. *Bull. Johns Hopkins Hosp.*, p. 223, Aug., 1914.
- 1225 HALSTED, W. T. Significance of thymus gland in Graves' disease. *N. Y. Med. Jour.*, p. 638, March 28, 1914.
- 1226 HARLAND, G. B. Surgical treatment of goiter in Tibet. *Indian Med. Gaz.*, Sept., 1914.
- 1227 HARROWER, H. R. Properties of parathyroid extracts. *N. Y. Med. Jour.*, p. 420, Feb. 28, 1914.
- 1228 HART, C. Importance of thymus in origin and course of exophthalmic goiter. *Arch. f. klin. Chir.*, Vol. 104, No. 2, 1914.
- 1229 HERMANN, G. J. Some functions of adrenals and thyroids. *Ky. Med. Jour.*, Sept. 15, 1914.
- 1230 HERTOEGHE. Appendicitis and hypothyroidism. *Bull. Acad. Roy. de Med. de Belg.*, Vol. 28, p. 64, 1914.
- 1231 HERTOEGHE, E. Some remarks on thyroid deficiency. *Am. Med.*, p. 194, April, 1914.
- 1232 HERTOEGHE, E. Thyroid deficiency. *Med. Rec.*, p. 489, Sept. 19, 1914.
- 1233 HILLMAN, O. S. Pathology of exophthalmic goiter. *L'ville Monthly Jour. of Med. and Surg.*, p. 347, April, 1914; and *Med. Fortnightly*, p. 11, April 10, 1914.
- 1234 HIRSCH, J. A. Spondylo-therapy in exophthalmic goiter. *Ill. Med. Jour.*, May, 1914.
- 1235 HIRSCHFELD, L., and KLINGER, R. Endemic goiter. *Muench. Med. Wchnschr.*, Feb. 3, 1914.
- 1236 HOFMANN, E. Blood picture and coagulation of blood in normal, pregnant and parturient women and in those with excessive and deficient thyroid functioning. *Ztschr. f. Gebnrtsch. u. Gynekol.*, Vol. 75, No. 2, 1914.
- 1237 HORSLEY, J. S. Surgical treatment of diseases of the thyroid. *Va. Med. Semi-Monthly*, p. 375, Nov. 13, 1914.
- 1238 HOSKINS, R. G., and WHEELON, H. Parathyroid deficiency and sympathetic irritability. *Am. Jour. of Physiol.*, p. 263, June, 1914.
- 1239 HUNNICUTT, J. A. Absence of hyperplasia of the remainder of the thyroid in dogs, after piecemeal removal of this gland. Auto-transplantation of the thyroid in partially thyroidectomized animals. *Am. Jour. Med. Sci.*, p. 207, Aug., 1914.
- 1240 IVERSON, T. Behavior of parathyroid glands with ordinary and exophthalmic goiter. *Arch. intern. de Chir.*, Vol. 6, No. 3, 1914.
- 1241 JACOBSON, C. Rate of disappearance of ammonia from blood in normal and in thyroidectomized animals. *Jour. of Biol. Chem.*, p. 133, July, 1914.

- 1242 JOHNSON, J. H. Eye, ear, nose and throat in exophthalmic goiter. *Kans. Med. Soc. Jour.*, p. 171, May, 1914.
- 1243 JOHNSON, J. H. Medical treatment of goiter. *Lancet-Clinic*, Jan. 3, 1914.
- 1244 JONES, E. G. Surgical treatment of goiter. *Ga. Med. Ass'n. Jour.*, June, 1914.
- 1245 JOSEFSON, A. Hutchinson's teeth as an indication of insufficiency of the thyroid. *Dermatol. Wchnschr.*, May 9, 1914.
- 1246 JOYCE, T. M. Treatment of goiter. *N. W. Medicine*, Dec., 1914.
- *1247 KEMPNER, A. Iodin and exophthalmic goiter. *Contribl. f. d. Grenzgeb. d. Med. u. Chir.*, July, 1914.
- 1248 KENDALL, E. C. Determination of iodine in connection with studies in thyroid activity. *Jour. Biol. Chem.*, Oct., 1914.
- 1249 KESSEL, G. Goiter. *Iowa State Med. Soc. Jour.*, Dec., 1914.
- *1250 KLOSE, H. Operative treatment of exophthalmic goiter. *Berl. klin. Wchnschr.*, Jan. 5, 1914.
- *1251 KOCHER, A. Exophthalmic goiter and the thymus. *Arch. f. klin. Chir.*, Oct., 1914.
- 1252 KOCHER, A. Transplantation of thyroid gland. *Arch. f. klin. Chir.*, Oct., 1914.
- *1253 KOWARSKY, X. WISSNER. Cancer of the thyroid. *Rev. Med. de la Suisse rom.*, Jan. 20, 1914.
- 1254 KUTSCHERA, A. Further remarks on the etiology of goiter and cretinism. *Prag. med. Wchnschr.*, No. 13, 1914.
- 1255 LAHEY, F. H. Thyroid operations under local anesthesia. *Boston Med. and Surg. Jour.*, Oct. 15, 1914.
- 1256 LAMSON, O. F. Intrathoracic goiter. *Ann. of Surg.*, Feb., 1914.
- 1257 LANGMEAD, F. Relation of thyroid gland to infections and toxemias. *Am. Med.*, p. 284, April, 1914.
- 1258 LANGMEAD, F. Treatment of exophthalmic goiter. *Clin. Jour.*, p. 609, Dec. 31, 1914.
- 1259 LEDOUX, L. Basedow's disease. *Ann. de la Policlin. Centrl.*, p. 262, June, 1914.
- 1260 LEGGETT, W. Mental symptoms associated with exophthalmic goiter. *Lancet*, June 27, 1914.
- 1261 LENORMANT, C. Thymectomy in exophthalmic goiter. *Presse Med.*, Feb. 14, 1914.
- 1262 LEONHARD, J., and VAND, H. Boley's inter-crico-thyroidectomy in cases of suffocation. *Medisch Weekblad.*, March 7, 1914.
- 1263 LIEK, E. Early operative treatment of exophthalmic goiter. *Arch. f. klin. Chir.*, March 24, 1914.
- 1264 LINK, G. Diagnosis and surgical treatment of goiter. *Ind. State Med. Ass'n. Jour.*, Dec., 1914.
- 1265 LOUTFIAN, J. L. Exophthalmic goiter. *Albany Med. Ann.*, p. 650, Dec., 1914.
- 1266 LUEDIN. Roentgen treatment of goiter. *Contribl. f. d. Grenzgeb. d. Med. u. Chir.*, Vol. 18, p. 205, No. 3, 1914.
- 1267 MACCALLUM, W. G. Parathyroid gland, a brief digest of the literature of 1912-1913. *Am. Medicine*, p. 244, April, 1914.
- 1268 MACCALLUM, W. G. Parathyroids. *L'ville Monthly Jour. of Med. and Surg.*, p. 313, March, 1914.

- 1269 MAMOURIAN, M. Our present knowledge of the thyroid gland with a preliminary report on a case of thyroid grafting. *Brit. Med. Jour.*, p. 824, Nov. 14, 1914.
- 1270 MARINE, D. Observations and experiments on goiter (so-called thyroid carcinoma) in brook trout (*salvelinus fontinalis*). *Jour. Experim. Med.*, Jan., 1914.
- 1271 MARINE, D. Rapidity of involution of active thyroid hyperplasias of brook trout following use of fresh sea fish as food. *Jour. Experim. Med.*, April, 1914.
- 1272 MARSCHIK. Radium treatment for malignant goiter. *Wr. klin. Wchnschr.*, No. 26, 1914.
- 1273 MARTIN, H. H. Goiter; surgical treatment. *Ind. State Med. Ass'n. Jour.*, Nov., 1914.
- 1274 MATTIE, H. Relation between the thymus and exophthalmic goiter. *Berl. klin. Wchnschr.*, July 20, 1914.
- 1275 MAYO, C. H. Hyperthyroidism: primary and late results of operation. *Lancet*, Aug. 1, 1914; and *Surg. Gynecol. and Obstetr.*, p. 351, Sept., 1914.
- 1276 MAYO, C. H. Summing up of the goiter question. *Surg. Gynecol. and Obstetr.*, p. 322, March, 1914.
- 1277 McALLISTER, G. W. Medical treatment of diseases of the thyroid gland. *Va. Med. Semi-Monthly*, p. 372, Nov. 13, 1914.
- 1278 McCARRISON, R. Causation of goiter at Lawrence Military Asylum, Sanawar. *Indian Jour. Med. Research*, Jan., 1914.
- 1279 McCARRISON, R. Etiology of endemic cretinism, congenital goiter and congenital parathyroid disease. *Lancet*, March 21, 1914.
- 1280 McCARRISON, R. Experimental researches on etiology of endemic cretinism. Congenital goiter and congenital parathyroid disease. *Indian Jour. of Med. Research*, Jan., 1914.
- 1281 McCARRISON, R. Experimental researches on etiology of endemic goiter. *Indian Jour. of Med. Research*, July, 1914.
- 1282 McCARRISON, R. Nervous cretinism. *Brit. Jour. Children's Dis.*, Dec., 1914.
- 1283 McCARRISON, R. Pathogenesis of experimentally produced goiter. *Indian Jour. of Med. Research*, July, 1914.
- 1284 MELCHIOR, E. Tardy suppuration in the thyroid after typhoid. *Berl. klin. Wchnschr.*, Dec. 14, 1914.
- 1285 MILNE, C. Thyroid and some cases of hypothyroidism. *Indian Med. Gaz.*, June, 1914.
- §1286 MOORHEAD, T. G. Treatment of exophthalmic goiter by roentgen rays. *Dublin Jour. Med. Sci.*, Nov., 1914; *THE LARYNGOSCOPE*, p. 337, June, 1915.
- 1287 MORSE, M. Effective principle in thyroid accelerating involution in frog larva. *Jour. Biol. Chem.*, Nov., 1914.
- 1288 MOSS, M. I. Heredity in exophthalmic goiter, its influence as a predisposing factor in the etiology. *N. Y. Med. Jour.*, p. 482, March 7, 1914.
- 1289 OSWALD, A. Necessity for thyroid treatment of endemic cretinism. *Corresp.-Bl. f. Schweizer Aerzte*, Vol. 44, Nos. 23-26, 1914.
- 1290 OUTLAND, J. H. Point in technic of the removal of goiter. *Jour. Mo. State Med. Ass'n.*, p. 428, May, 1914.

- 1291 NIZZOLI, A. Phosphocarnic-acid content of the central nervous system in animals after removal of thyroid or parathyroids. *Gaz. degli Osped. e delle Clin.*, Vol. 35, Nos. 13-15, and 25-29, 1914.
- 1292 PAYR, E. Thyroid grafting. *Arch. f. klin. Chir.*, Vol. 106, No. 1, 1914.
- 1293 PELTENKOFER, W. Operative treatment of bilateral struma. *Beitr. z. klin. Chir.*, Vol. 93, No. 2, 1914.
- 1294 PETROFF, N. N. Preliminary ligation of the inferior thyroid artery for strumectomy. *Russky Vrach.*, p. 741, June 6, 1914.
- 1295 PHELIP and TREVES. Acute influenzal thyroiditis in girl of 13 years, with Pott's disease. *Arch. de Med. des Enf.*, June, 1914.
- 1296 PHILLIPS, H. J. Enlargement of thyroid treated with epinephrin. Report of case. *Lancet-Clin.*, Nov. 7, 1914.
- 1297 PLETNEFF, D. D. Symptoms of exophthalmic goiter occurring with acute infectious thyroiditis. *Ztschr. f. klin. Med.*, Vol. 80, Nos. 3-4, 1914.
- 1298 PLETNEFF, D. D. Acute thyroiditis as the cause of symptoms of exophthalmic goiter. *Russky Vrach.*, p. 217, Feb. 15, 1914.
- 1299 POPE, C. Non-surgical treatment of hyperthyroidism and exophthalmic goiter. *Med. Fortnightly*, p. 399, Nov. 25, 1914.
- 1300 PORTIS, M. M., and BACH, I. W. Non-specific action of a serum prepared according to the method of Beebe. *Jour. A. M. A.*, p. 1884, June 13, 1914.
- 1301 PRESTON, J. W. Notes on some of the medical problems of the thyroid. *Va. Med. Semi-Monthly*, p. 36, April 24, 1914.
- *1302 PETREN, K. Treatment of exophthalmic goiter. *Hygiea*, Vol. 76, No. 18, p. 1009, 1914.
- 1308 RIEDEL. Disturbances and dangers from cystic goiter. *Arch. f. Surg.*, Jan., 1914.
- 1304 RAILLIET, G. Exophthalmic goiter in girl of 7 years. *Arch. de Med. des Enf.*, Sept., 1914.
- 1305 RAHE, J. M., ROGERS, J., FAUCETT, G. C., and BEEBE, S. P. Nerve control of thyroid. *Am. Jour. of Physiol.*, April, 1914.
- 1306 RAWLES, L. T. Pathology of goiter. *Ind. State Med. Ass'n. Jour.*, Nov., 1914.
- 1307 RAWLS, J. W. Antitoxic influence of thyroid. *Tex. State Jour. of Med.*, May, 1914.
- 1308 RIEDEL. Disturbance and dangers from cystic goiter. *Arch. f. klin. Chir.*, Vol. 105, No. 1, 1914.
- 1309 RIEDEL. Tuberculosis of the thyroid. *Deut. med. Wehnschr.*, Aug. 20, 1914.
- 1310 ROGERS, J. Course of acquired disease of thyroid and principles which seem to control its progress. *Ann. of Surg.*, Sept., 1914.
- 1311 ROSE, F. Thymus and exophthalmic goiter. *Semaine Med.*, p. 25, Jan. 21, 1914.
- 1312 ROSSI, A. Deviation of complement by thyroid extract in serum of fibrile patients. *Rif. Med.*, March 14, 1914.
- 1313 ROUSSY, G., and CLUNET, J. Lesions of thyroid with Basedow's disease. *Ann. de Med.*, No. 4, April, 1914.
- 1314 SAJOUS, C. E. DE M. Toxemias in the genesis of hyperthyroidism and their treatment. *N. Y. Med. Jour.*, p. 724, April 11, 1914.

- 1315 SANFORD, A. H., and BLACKFORD, J. M. Comparative study of the effects on blood-pressure of the extracts and serums of exophthalmic goiter and of other substances. *Jour. A. M. A.*, p. 117, Jan. 10, 1914.
- 1316 SCALONE, I. Operative treatment of exophthalmic goiter. *Polichin.*, Aug. 15, 1914.
- 1317 SCHEMENSKY, W. Congenital myxedema and thyroid treatment. *Med. Klinik*, July 26, 1914.
- 1318 SCHINZINGER. Exophthalmic goiter symptoms with tuberculosis. *Beitr. z. Klin. d. Tuberk.*, Vol. 33, No. 1, 1914.
- 1319 SCHIOETZ, C. Pathogenesis of goiter. *Nordiskt. med. Arkiv*, Vol. 56, No. 2, 1914.
- 1320 SCHMAUCH, G. Aims and technic of thyroid treatment. *Monatschr. f. Gebnrtsh. u. Gynekol.*, Aug., 1914.
- 1321 SCHNEIDER, E. H. Goiter, diagnosis and treatment based on 1,000 cases. *Dom. Med. Monthly*, p. 19, Jan., 1914.
- 1322 SEHET, E. Thyroid insufficiency in relation to nervous disturbances and spastic constipation in women. *Muench. med. Wchnschr.*, Feb. 24, 1914.
- 1323 SHARPLES, C. W. Medical treatment of goiter. *N. W. Medicine*, Dec., 1914.
- 1324 SHERRILL, J. G. Thyroidectomy. Report of a case. *L'ville Monthly Jour. of Med. and Surg.*, p. 271, Feb., 1914.
- *1325 SIGURA. Intra-tracheal nodules of the thyroid gland. *Sem. Med., Buenos-Aires*, Feb. 26, 1914; *THE LARYNGOSCOPE*, p. 226, April, 1915.
- *1326 SINOZERSKY, S. M. Roentgen exposures of the thymus in the treatment of exophthalmic goiter. *Russky Vrach.*, July 4, 1914.
- 1327 SMITH, C. Does internal administration of potassium iodid have any effect on thyroid grafts in guinea-pigs? *Jour. Med. Research*, May, 1914.
- 1328 SMITH, E. V. Iodin content in the thyroid gland with especial reference to the pathologic types and a review of some experimental work. *Jour. A. M. A.*, p. 113, Jan. 10, 1914.
- 1329 SMITH, G. M. Case of acute exophthalmic goiter simulating acute obstruction. *Lancet*, Oct. 10, 1914.
- 1330 SMITH, W. H. Hyperthyroidism. *Jour. Ophthal. Otol. and Laryngol.*, p. 519, Nov., 1914.
- 1331 SOBOURIN, C. Symptoms suggesting exophthalmic goiter in the tuberculous. *Arch. gen. de Med.*, p. 1, Jan., 1914.
- 1332 SOUNE, C. Serum of thyroidectomized goats in exophthalmic goiter. *Ztschr. f. klin. Med.*, Vol. 80, Nos. 3-4, 1914.
- 1333 SONNE, C. Unbeneficial effect of use of serum of thyroidectomized animals in treatment of exophthalmic goiter; eighty cases. *Hospitaltidende*, p. 737, June 10, 1914.
- *1334 SIELMANN, R. Roentgen treatment of exophthalmic goiter. *Muench. med. Wchnschr.*, Oct. 27, 1914.
- *1335 SIMMONDS, M. The thymus in thyroid disease. *Zntribl. f. Chir.*, March 21, 1914.
- 1336 SINGER, G. Relation between thyroid, parathyroids and thymus shown by Abderhalden's dialysis. *Ztschr. f. Kinderh.*, Vol. 10, No. 1, 1914.

- 1337 STARK, J. N. Excessive separation of recti muscles and hernia of abdominal contents in woman suffering from myxedema. *Jour. Obstetr. and Gynecol. of Brit. Empire.*, Jan., 1914.
- 1338 STERN, H. Diagnosis of hypothyroidism. *Berl. klin. Wchnschr.*, March 2, 1914.
- 1339 STOLOFF, I. A. Surgery in goiter. *N. Y. Med. Jour.*, p. 433, Feb. 28, 1914.
- 1340 STRAUCH, A. Persisting thyro-lingual ducts as cause of cough. *Muench. med. Wchnschr.*, Feb. 24, 1914.
- 1341 SUDECK, P. Pathologic anatomy and symptoms of exophthalmic goiter. *Beitr. z. klin. Chir.*, June, 1914.
- 1342 SWASEY, E. Severe case of exophthalmic goiter with complete recovery without operation, rest or medication. *Jour. A. M. A.*, p. 1950, Nov. 28, 1914.
- 1343 SWOPE, S. D. Study of thyroid. *N. Mex. Med. Jour.*, p. 1, April, 1914.
- 1344 TALIAFERRO, R. M. Causes of diseases of the thyroid gland. *Med. Semi-Monthly*, p. 369, Nov. 13, 1914.
- 1345 TEDESCHI, E. Influence of muscular fatigue on the functioning of the autonomic nervous system in health and with exophthalmic goiter. *Policlin., Med. Sec.*, p. 49, Feb., 1914.
- *1346 THEISEN, C. F. Acute thyroiditis as a complication of acute tonsillitis. *Ann. of Otol.*, p. 1, March, 1914.
- 1347 THEISEN, C. F. (1) Case of suppurative thyroiditis with perforation of the trachea. (2) Unusual infection of the epiglottis and larynx in a child. Tracheotomy. Recovery. *Ann. of Otol.*, p. 569, Sept., 1914.
- 1348 THIMM, L. Parathyroid glands. *Arch. f. Kinderh.*, Vol. 63, Nos. 5-6, p. 612, 1914.
- 1349 THROCKMORTON, G. K. Goiter; selection and preparation of surgical risks. *Ind. State Med. Ass'n. Jour.*, Nov., 1914.
- 1350 TINKER, M. B. Internal secretion of the thyroid gland from the surgical viewpoint. *Am. Med.*, p. 297, April, 1914.
- 1351 TROELL, A. Unilateral eye symptoms in exophthalmic goiter. *Hygiea*, Vol. 76, No. 8, p. 449, 1914.
- 1352 ULLOM, J. T. Exophthalmic goiter from the standpoint of the general practitioner. *Monthly Cycloped. and Med. Bull.*, Feb., 1914.
- 1353 UNDERHILL, F. P., and BLATHERWICK, N. R. Influence of subcutaneous injections of dextrose and calcium lactate on blood-sugar content and on tetany after thyropara-thyroidectomy. *Jour. of Biol. Chem.*, Sept., 1914.
- 1354 VAN ZANDT, I. L. Adrenalin in exophthalmic goiter. *Am. Med.*, April, 1914.
- *1355 VON EISELBERG, A. Thyroid and parathyroid grafts. *Arch. f. klin. Chir.*, Vol. 106, No. 1, p. 1, 1914.
- *1356 VON HABERER, H. Resection of thymus for simple and exophthalmic goiter. *Arch. f. klin. Chir.*, Aug., 1914.
- 1357 VOORHEES, I. W. Case of acute thyroiditis. *Med. Rec.*, p. 883, Nov. 21, 1914.

- 1358 VOROBIEFF, V. N., and PERINOFF, V. A. Family myxedema; thyroid grafting; one case. *Ped.*, Vol. 5, Nos. 11-12, 1914.
- 1359 VORONOFF. Improvement of myxedematous boy of 14, after graft of monkey's thyroid. *Bull. de l' Acad. de Med.*, Vol. 78, Nos. 26-28, 1914.
- 1360 WAGNER, K. Röntgen exposures of the ovaries and exophthalmic goiter; necessity for discrimination as to functioning of different ductless glands. *Wr. klin. Wchnschr.*, April 9, 1914.
- 1361 WALTON, A. J. Consideration of some cases of exophthalmic goiter treated by operation. *Lancet*, May 16, 1914.
- 1362 WALTON, A. J. Operative treatment of exophthalmic goiter. Report of fourteen cases. *Practitioner*, Oct., 1914.
- 1363 WATHEN, J. R. Surgical treatment of goiter. *South. Med. Jour.*, June, 1914.
- 1364 WATHEN, J. R. Surgical treatment of diseases of thyroid. *Ky. Med. Jour.*, Oct. 1, 1914.
- 1365 WATSON, L. F. Exophthalmic goiter cured by ligating one superior thyroid artery. *Okla. State Med. Ass'n. Jour.*, p. 369, Feb., 1914.
- 1366 WATSON, L. F. Injection of quinin and urea hydrochlorid in hyperthyroidism. *Jour. A. M. A.*, p. 126, Jan. 10, 1914.
- 1367 WELBORN, J. Y. Present status of goiter. *Lancet-Clinic*, June 20, 1914.
- 1368 WETHERILL, R. B. Goiter; differential diagnosis. *Ind. State Med. Ass'n. Jour.*, p. 507, Nov., 1914.
- 1369 WIEBRECHT. Tetany after operations for goiter. *Beitr. z. klin. Chir.*, June, 1914.
- 1370 WILLIAMS, L. Byways of thyroid inadequacy. *Am. Med.*, p. 268, April, 1914.
- 1371 WILLIAMSON, G. M. Cretinism. *Jour.-Lancet.*, Oct. 1, 1914.
- 1372 WILLIS, B. C. Alveolar carcinoma of the thyroid with report of case. *Va. Med. Semi-Monthly*, p. 216, Aug. 7, 1914.
- 1373 WILSON, L. B. Pathology of thyroids from cases of toxic non-exophthalmic goiter. *Jour.-Lancet*, p. 93, Feb. 15, 1914.
- 1374 WILSON, L. B. Relation of the pathology and the clinical symptoms of simple and exophthalmic goiter. *Jour. A. M. A.*, p. 111, Jan. 10, 1914.
- 1375 WILSON, L. B. Study of the pathology of the thyroids from cases of toxic non-exophthalmic goiter. *Am. Jour. Med. Sci.*, p. 344, March, 1914.
- 1376 WINSTON, J. W. Whys and wherefores of goiter. *Va. Med. Semi-Monthly*, p. 137, June 26, 1914.
- 1377 WOODBURY, M. S. Technic of outlining the thyroid gland. *N. Y. Med. Jour.*, p. 333, Feb. 14, 1914.
- 1378 YOUCHTCHENKO, A. I. Physiology of the thyroid. *Arch. d. Sci. Biol.*, Vol. 18, Nos. 1-2, 1914.
- 1379 ZONDEK, B., and FRANKFURTER, W. Action of thyroid extract on the lungs. *Berl. klin. Wchnschr.*, Aug. 24, 1914.

VI. EAR.

External Ear.

- 1380 ARDENNE. Fibro-myoma of the auricle of the ear. *Jour. de Med. de Bordeaux*, May 24, 1914.
- *1381 BOTELLA. Circumscribed otitis externa simulating mastoiditis. *Arch. intern. de Laryngol.*, p. 776, May-June, 1914.
- §1382 BROCC, L. Conditions resembling elephantiasis of the ear. *Ann. de Dermatol. et de Syphiligraph.*, May, 1914; *THE LARYNGOSCOPE*, p. 48, Feb., 1915.
- 1383 CARPENTER, E. R. Disease of external canal simulating middle-ear disease. *N. Mex. Med.-Jour.*, p. 177, March, 1914.
- 1384 HAHN, R. Lympho-angio-endothelioma of the external auditory canal. (Linfo-angio-endotelioma cilindromatoso del condotto uditivo esterno). *Bol. delle Mal. dell'Orecchio*, p. 25, Feb., 1914.
- 1385 JUNKEL. Cysts in external ear. *Deut. Ztschr. f. Chir.*, March, 1914.
- 1386 KRETSCHMANN, F. Parotid fistula in the external auditory canal. *Arch. f. Ohrenh.* Bd. 96, Heft 1-2, p. 8, 1914.
- 1387 LAPA. Case of syphilitic primary affection of auricle. *Dermatol. Wchnschr.*, No. 11, p. 320, 1914.
- 1388 LOTHROP, O. A. Furunculosis of the external auditory canal. Use of alcohol as a valuable aid in treatment. *Merck's Arch.*, Jan., 1914.
- 1389 LUDWIG, J. Congenital tumors of the auricle. *Arch. f. Ohrenh.* Bd. 93, Heft 3-4, p. 290, 1914.
- 1390 MOSSE. External otitis, due to an ear-wig in the auditory canal. *Ann. des Mal. de l'Oreille*, No. 6, p. 375, 1914, and *Rev. hebdom. de Laryngol.*, p. 134, Aug. 1, 1914.
- 1391 PAGE, J. R. Congenital bilateral microtia with total operation and report of cases. *Trans. Am. Otol. Soc.*, May 27-28, 1914.
- 1392 SCOTT, SIDNEY. An uncommon form of malignant disease of the ear. *Proc. Royal Soc. Med. Sect. on otol.*, Jan., 1914.
- 1393 STREIT. Plastic operations on auricle. *Arch. f. Ohrenh.*, Bd. 95, Heft 3-4, p. 299, 1914.
- 1394 MERLI, F., ZUCCARDI. Papilloma of auditory canal. *Arch. ital. di Otol.*, No. 1, p. 5, 1914.

Tympanic Cavity.

- *1395 AGAZZI, B. Pathogenesis of tuberculosis of the middle-ear. *Monatschr. f. Ohrenh.*, Heft 5, p. 676, 1914.
- 1396 ALLEN, J. H. Conservative treatment of chronic suppurative otitis media. *Mc. Med. Ass'n. Jour.*, p. 1841, May, 1914.
- 1397 BALTAR, A. Prosthesis of tympanic membrane. *Arch. de rinol., laryngol. y otol.*, p. 95, April-June, 1914.
- 1398 BECKER. Repair of defect left after operation on middle-ear. *Deut. Ztschr. f. Chir.*, Vol. 129, 1914.
- 1399 BLEYL. Recognition of pneumococcic otitis. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 219, 1914.
- 1400 BOBONE, T. Conservative treatment of chronic purulent otitis media. *Boll. delle Mal. dell'Orecchio*, p. 193, Sept., 1914.
- §1401 BRIGGS, H. H. Tuberculosis of the middle-ear. *Ann. of Otol.*, p. 529, Sept., 1914. *THE LARYNGOSCOPE*, p. 1021, Dec., 1914.

- 1402 BRINDEL and BOTTE. Long-standing otorrhea. Cholesteatoma. *Jour. de med. de Bordeaux*, May 24, 1914.
- †1403 BUTLER, R. Contribution to the study of the anatomy of the tympanic cavity. *THE LARYNGOSCOPE*, p. 851, Oct., 1914.
- 1404 CALDERA, C., and BALLA, A. Histo-pathological changes of the tympanic membrane. *Arch. f. Ohrenh.*, Bd. 93, Heft 3-4, p. 297, 1914.
- 1405 CLAY, J. V. F. A few thoughts upon chronic suppurative otitis media. *Hahnemannian Monthly*, Feb., 1914.
- 1406 CODY, H. C. Middle-ear complications of measles in immigrant children. *Am. Jour. Dis. of Children*, Aug., 1914.
- 1407 CUNNINGHAM, F. M. Chronic suppuration of middle-ear. *Ga. Med. Ass'n. Jour.*, p. 1, May, 1914.
- 1408 DABNEY, S. G. Treatment of acute suppurative otitis media. *L'ville Monthly Jour. of Med. and Surg.*, p. 236, Jan., 1914.
- 1409 DEWATHIPONT. Remote results of rupture of the tympanum in caisson workers. (Lec suites eloignees de la rupture des tympons chez les travailleurs des caissons). *Presse Oto-Laryngol Belge*, p. 279, June, 1914.
- 1410 DIGHTON, A. Attic or epitympanum: its importance and relation to tympanic suppuration. *Liverpool Med.-Chir. Jour.*, July, 1914.
- 1411 DOUGHERTY, D. G. Colon bacillus infection in middle-ear disease. *Jour. A. M. A.*, p. 1163, Dec. 12, 1914.
- 1412 DURKEE, J. W. Prophylaxis and treatment of otitis media in infectious diseases. *L. Isl. Med. Jour.*, Vol. 8, p. 470, 1914.
- 1413 DWYER, J. G. Bacteriology of chronic purulent otitis. *Am. Jour. of Surg.*, p. 257, July, 1914.
- *1414 EITELBERG. Treatment of chronic suppurative otitis media with acidum lacticum. *Wr. med. Wehnschr.*, No. 22, 1914.
- 1415 FERGUSON, J. B. Suppurative otitis media. *Okla. State Med. Ass'n. Jour.*, Nov., 1914.
- 1416 FERRERI, G. Treatment of chronic suppurative otitis. *Arch. intern. de Laryngol.*, p. 689, May-June, 1914.
- 1417 FIFIELD, H. L. Acute suppurative otitis media. *Med. Rec.*, p. 249, Aug. 8, 1914.
- 1418 FISCHER, R. Bacterium pseudotuberculosis rodentium in chronic suppurative otitis media. *Monatschr. f. Ohrenh.*, p. 918, No. 7, 1914.
- 1419 FRASER, J. S. Case of acute suppurative otitis media, purulent labyrinthitis and leptomeningitis without rupture of the tympanic membrane. *Edin. Med. Jour.*, p. 417, May, 1914; and *Jour. of Laryngol.*, p. 284, June, 1914.
- 1420 FREMEL, F. Radium in chronic middle-ear suppuration. *Monatschr. f. Ohrenh.*, Heft 7, p. 914, 1914.
- 1421 GISSELL, J. F. Acute otitis media. *Kans. Med. Soc. Jour.*, Nov., 1914.
- 1422 GOUX, L. J. Lymphangitis simulating otitis media. *Mich. State Med. Soc. Jour.*, Feb., 1914.
- 1423 HAYS, H. Reflexed ear drums. *N. Y. Med. Jour.*, p. 570, March 21, 1914.

- 1424 JOHNSON, H. R. Chronic suppurative otitis media. *W. Va. Med. Jour.*, Feb., 1914.
- 1425 KELLEY, I. D. Observations on exudative middle-ear catarrh. *Jour. Mo. State Med. Ass'n.*, p. 263, Dec., 1914.
- 1426 KIRCHNER, K. Hemorrhage from branch of arteria meningea media in tuberculosis of tympanic cavity. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 85, 1914.
- 1427 KISCH, H. A. Danger-signals in suppuration of the middle-ear. *Clin. Jour.*, May 20, 1914.
- 1428 KUEMMEL, W. Acute threatening conditions with otitis media. *Deut. med. Wchnschr.*, p. 937, May 7, 1914.
- 1429 LAKE, G. B. Infection of the middle-ear with bacillus tuberculosis and bacillus coli. *Med. Rec.*, p. 585, Oct. 3, 1914.
- 1430 LAUTMANN. Tuberculosis of the middle-ear. *Ann. de Mal. de l'Oreille*, No. 2, p. 163, 1914.
- 1431 LAVRAND, H. Isolated osteo-periostitis of the temporal bone in a case of otitis media. *Ann. des Mal. de l'Oreille*, No. 5, p. 484, 1914.
- 1432 LEDOUX, L. Traumatic mal insertion of the tympanum. (Case de desinsertion traumatique du tympan avec luxation du Marteau). *Ann. de la Policlin. Cntrl.*, p. 263, June, 1915.
- *1433 LOUGHRAN, R. L. Conservative treatment of chronic aural sup-puration. *N. Y. State Jour. of Med.*, Feb., 1914.
- 1434 LUTZ, S. H. How the patient can help himself in cases of chronic catarrhal otitis media. *Ann. of Otol.*, p. 377, June, 1914.
- 1435 NEWTON, L. A. Suppurative otitis media. *Okla. State Med. Ass'n. Jour.*, Nov., 1914.
- 1436 RICHTER. Comments on Sugar's work: "New procedure of mobiliz-ing drum." *Monatschr. f. Ohrenh.*, Heft 1, p. 39, 1914.
- 1437 ROBINSON, R. E. Indications for paracentesis of tympanum. *Iowa State Med. Soc. Jour.*, Aug., 1914.
- §1438 RUTTIN, E. Operative treatment of pronounced chronic middle-ear catarrh. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 58, 1914; *THE LARYNGOSCOPE*, p. 220, April, 1915.
- 1439 SANTALO, A. R. Sarcoma of middle-ear. *Arch. intern. de Laryn-gol.*, p. 175, Jan.-Feb., 1914.
- 1440 SHEPPARD, J. E. Importance of disturbed metabolism in the etiology of secretory middle-ear conditions. *Ann. of Otol.*, p. 574, Sept., 1914.
- §1441 URBANTSCHITSCH, E. Methylene blue silver in suppurating middle-ear inflammation. *Monatschr. f. Ohrenh.*, Heft 5, p. 711, 1914; *THE LARYNGOSCOPE*, p. 271, May, 1915.
- 1442 URBANTSCHITSCH, E. Peculiar cyst of the tympanic membrane with colloid-like contents. *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2, p. 131, 1914.
- 1443 URBANTSCHITSCH, V. Radium treatment of the external and middle-ear. *Monatschr. f. Ohrenh.*, Heft 11-12, p. 1265, 1914.
- *1444 WEINBERG, M. Blood examination in acute otitis media especially in the early stages. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 251, 1914.

Ossicles.

- 1445 CROCKETT, E. A. Removal of stapes for the relief of severe auditory vertigo. *Trans. Am. Otol. Soc.*, May 27-28, 1914.
- 1446 DARNEY, S. G. Ossiculotomy. Report of case. *L'ville Monthly Jour. of Med. and Surg.*, p. 245, Jan., 1914.

Eustachian Tube.

- 1447 BRAISLIN, W. C. Further remarks on use of nitrate of silver applied within the mouth of the Eustachian tube for the relief of tinnitus. *Ann. of Otol.*, p. 402, June, 1914.
- 1448 CORSON, G. R. S. Eustachian tube. *Pa. Med. Jour.*, March, 1914.
- 1449 DENKER, A. Treatment of disease of Eustachian tube. *Deut. med. Wchnschr.*, Jan. 22, 1914.
- 1450 HARRIS, T. J. Naso pharynx in treatment. Diseases of the Eustachian tube and the middle-ear. *N. Y. Med. Jour.*, p. 767, Oct. 17, 1914.
- 1451 HAYS, H. Exact diagnosis by accurate instruments in the treatment of Eustachian tubes and ears. *Med. Rec.*, p. 468, March 14, 1914.
- 1452 LOUGEE, J. L. End-results following the Yankauer operation on the Eustachian tube. *Jour. A. M. A.*, p. 1576, Oct. 31, 1914.
- 1453 WOOD, J. W. Direct treatment of the Eustachian tube with analysis of results in 71 cases. *Jour. of Laryngol.*, p. 116, March, 1914.

Labyrinth.

- 1454 ABRAHAM, A. Analysis of nystagmus. *Arch. intern. de Laryngol.*, March-June, 1914.
- 1455 ALBRECHT, W. Vestibular excitability in the blind-deaf. *Passows Beitr.*, Heft 1-3, p. 172, 1914.
- 1456 AMBERG, E. Some injuries of the inner ear. *Med. Rec.*, p. 1120, June 20, 1914.
- 1457 BABBITT, J. A. Some labyrinthine studies. *Ann. of Otol.*, p. 607, Sept., 1914.
- 1458 BALLON, D. H. Investigation of semi-circular canals and their clinical applications. *Can. Med. Ass'n. Jour.*, Oct., 1914.
- 1459 BALLON, D. H. Recent investigations on the semi-circular canals and their clinical applications. *Can. Med. Ass'n. Jour.*, p. 871, Oct., 1914.
- 1460 BARANY. Development of knowledge of semi-circular canal apparatus. *Med. Klinik*, No. 12, 1914.
- *1461 BARANY and ROTHFELD, J. Vestibular apparatus of the ear in acute alcohol intoxication and in the course of delirium tremens. *Presse oto-laryngol. Belge*, May-June, 1914.
- 1462 BOBONE, T. Pathogenesis of otosclerosis. *Boll. delle Mal. dell'Orecchio*, p. 265, Dec., 1914.
- 1463 BOETERS, O. Comparative investigations on rotatory and caloric nystagmus. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 77, 1914.
- 1464 BOTEX, R. Trepanation of the labyrinth in vertigo and tinnitus. *Monatschr. f. Ohrenh.*, Heft 2, p. 255, 1914.

- 1465 BOVERO, A. Sympathetic relation of vestibular ganglion and acoustic nerve. *Arch. ital. di Otol.*, No. 1, p. 41, 1914; and *Arch. intern. de Laryngol.*, p. 802, May-June, 1914.
- 1466 BRAUN, A. Case of cavernous sinus thrombosis complicating suppurative labyrinthitis. *Ann. of Otol.*, p. 368, June, 1914.
- 1467 BUYS. Function of centers of nystagmus. *Arch. intern. de Laryngol.*, p. 121, Jan.-Feb., 1914.
- 1468 BUYS. Peculiar form of nystagmus, due to brusque movements of the head. *Presse Oto-Laryngol. Belge*, No. 1, 1914; and *Arch. ital. di Otol.*, No. 1, 1914.
- 1469 CANFIELD, R. B. (1) Bilateral specific disease of labyrinth with left facial paralysis of peripheral type. (2) Otitic thrombosis of sigmoid sinus without symptoms. *Mich. State Med. Soc. Jour.*, June, 1914.
- 1470 CHATELLIER and GIRAUD. Osteitis of the upper peri-labyrinthine circulaire trainees. Acute meningitis and labyrinthitis. Autopsy. *Bull. d'oto-rhino-laryngol.*, p. 1, Jan., 1914.
- 1471 CITELLI. So-called otosclerosis (Cosidetta otosclerosi). *Arch. ital. di Otol.*, No. 1, p. 29, 1914.
- 1472 CREYX. Internal ear disease plus cerebellum disease. *Jour. de Med. de Bordeaux*, p. 75, Feb. 1, 1914.
- 1473 CREYX. Labyrinth syndrome and cerebellar syndrome. *Jour. de Med. de Bordeaux*, Feb. 1, 1914.
- 1474 DANZIGER, E. Diffuse serous labyrinthitis complicating acute purulent otitis media. *Ann. of Otol.*, p. 406, June, 1914.
- †1475 DENCH, E. B. Two cases of loss of caloric vestibular reaction with operative findings. *THE LARYNGOSCOPE*, p. 792, Sept., 1914.
- *1476 DENKER, A. Pathogenesis and treatment of otosclerosis. *Deut. med. Wchnschr.*, May 7, 1914.
- 1477 DIGBY, K. H. Note on pathology of otosclerosis. *Jour. of Laryngol.*, p. 20, Jan., 1914.
- 1478 FALGAR. Indications and technic of labyrinthectomy. *Arch. intern. de Laryngol.*, p. 98, Jan.-Feb., 1914.
- †1479 FOWLER, E. P. Effect upon endolymph of the static labyrinth of local autogenous temperature variations. *THE LARYNGOSCOPE*, p. 210, March, 1914.
- †1480 FOWLER, E. P. Observation of nystagmus through the closed eyelids. *THE LARYNGOSCOPE*, p. 730, Aug., 1914.
- 1481 FRASER, J. S., and WALKER, G. Clinical aspect of otosclerosis. *Jour. of Laryngol.*, p. 513, Nov., 1914.
- 1482 FRIESNER, I. Functional tests of the static labyrinth in neurological diagnosis. *N. Y. Med. Jour.*, p. 369, Aug. 22, 1914.
- *1483 GOEBEL, O. Mechanism of internal ear functioning. *Berl. klin. Wchnschr.*, May 11-25, 1914.
- 1484 GRADENIGO. Treatment of the progressive deafness of otosclerosis with calcium salts. *Presse Oto-Laryngol. Belge*, p. 257, June, 1914.
- *1485 HABERMANN, J. Tuberculosis of the labyrinth of the ear. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 288, 1914.
- 1486 HAUTANT, A. Indications and technic of labyrinth trepanation. *Ann. des Mal. de l'Oreille*, No. 1, p. 8, 1914.

- 1487 HAYMANN, L. Experimental studies on the pathology of acute inflammatory process in the middle-ear and labyrinth. *Arch. f. Ohrenh.*, Bd. 95, Heft 1-2, p. 99, 1914.
- 1488 HEYROCH. Vestibular migraine. *Casopis lekaruv ceskych*, Nos. 1-4, 1914.
- 1489 HOFER, I. Clinical study of labyrinthitis circumscripta. *Monatschr. f. Ohrenh.*, Nos. 7-8, 1914.
- 1490 HOFER, I. Labyrinthitis circumscripta, circumscribed labyrinthine inflammation, suppuration fistula, abrasion, defect in wall. *Monatschr. f. Ohrenh.*, Heft 8-9, 1914.
- 1491 HUTCHINSON, J. M. Meniere's disease. *Old Dom. Jour. of Med. and Surg.*, June, 1914.
- 1492 JENKINS, G. J. Treatment of otosclerosis. *Jour. of Laryngol.*, p. 520, Nov., 1914.
- 1493 LABAND, L. Medical treatment of otosclerosis. (Die medikamentöse Behandlung der Otosklerose). *Intern. Zentrbl. f. Ohrenh.*, Bd. 12, Heft 3, p. 89, 1914.
- 1494 LANG. Tinnitus of labyrinthine origin. *Casopis lekaruv ceskych*, 1914.
- *1495 LAYTON, T. B. Examination of internal ear and hind-brain by stimulation of the vestibular nerve. *Clin. Jour.*, Vol. 43, p. 193, 1914.
- 1496 LERMOYER, M. Otospongiosis. Otosclerosis. *Ann. des Mal. de l'Oreille*, No. 5, p. 441, 1914.
- 1497 LONG, T. L. Relation of cerebellum to labyrinth. *Ill. Med. Jour.*, Oct., 1914.
- 1498 MACKENZIE, G. W. Basal fracture involving the inner ear—report of a case. *Hahnemannian Monthly*, Nov., 1914.
- 1499 MACKENZIE, G. W. Labyrinthine tests. *Jour. Ophth. Otol. and Laryngol.*, p. 160, April, 1914.
- *1500 MANASSE, P. Anomalies of ossification in the human petrous bone and their relation to so-called otosclerosis. *Archiv. f. Ohrenh.*, Bd. 95, H. 1-2, 1914.
- 1501 MAURICE, A. Physiology of the labyrinthine windows. *Arch. intern. de Laryngol.*, p. 472, April-May, 1914.
- *1502 PASSOW. New remedies against auditory disturbances and tinnitus. (Neue Mittel gegen Hörstörungen und Ohrgeräusche). *Med. Klin.*, No. 18, 1914.
- 1503 PLICQUE. New treatment of auricular vertigos. *Bull. med.*, Jan. 28, 1914.
- †1504 PHILLIPS, W. C. Further report of cases of inflammatory affections of the labyrinth. *THE LARYNGOSCOPE*, p. 969, Dec., 1914.
- 1505 PRITCHARD, U. Extra maculae found in ampullae of some birds. *Jour. of Laryngol.*, p. 1, Jan., 1914.
- 1506 REICH, Z. Anatomy of the semi-circular canals. *Monatschr. f. Ohrenh.*, Heft 9, p. 1137, 1914.
- 1507 REJTO, A. Equilibrium function of the semi-circular canals. (Ueber die Gleichgewichtsfunktion der Bogengänge). *Monatschr. f. Ohrenh.*, Heft 1, p. 14, 1914.

- 1508 RHESE. Traumatic lesion of the vestibular tract; site of lesion. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 262, 1914; and *Intern. Zntribl. f. Ohrenh.*, Bd. 12, Heft 1, p. 1, 1914.
- 1509 RIGAUD. Acquired syphilis and the inner ear. *Ann. de Dermatol.*, No. 4, 1914.
- 1510 RUTTIN, E. Histology of acute labyrinthitis and the toxic changes in the endoneurous of the labyrinth. *Monatschr. f. Ohrenh.*, Heft 4, p. 572, 1914.
- 1511 SCHOETZ, W. Does a congenital local disposition to the formation of otosclerotic bone foci exist? *Arch. f. Ohrenh.*, Bd. 95, Heft 3-4, p. 239, 1914.
- 1512 SHAMBAUGH, G. E. Semi-circular canals and the function of equilibrium. *Jour. Mo. State Med. Ass'n.*, p. 267, Feb., 1914; and *Ann. of Otol.*, p. 111, March, 1914.
- 1513 STEIN, C. Clinical data and therapy of labyrinthine inflammation arising in the course of acute suppurative otitis media. *Arch. f. Ohrenh.*, Bd. 93, Heft 3-4, p. 238, 1914.
- *1514 STEIN, C. Clinical pathology and therapy of subjective tinnitus. *Monatschr. f. Ohrenh.*, Bd. XLVIII, Heft 5, p. 625, 1914.
- 1515 THORNVAL, A. Polyneuritis cerebialis menieriformis. *Ztschr. f. Ohrenh.*, Bd. 71 Heft 1-2, p. 43, 1914; and *Ugeschr. f. Leger*, No. 4, 1914.
- 1516 UDAONDO, C. B. Nystagmus in febrile states. *Sem. Med.*, p. 1, Jan. 1, 1914.
- 1517 VON EICKEN. Non-suppurative diseases of the labyrinth. *Lancet-Clin.*, Feb. 18-March 7, 1914.
- 1518 VON TOEROEK, B. Relation of middle-ear affections to labyrinth. *Monatschr. f. Ohrenh.*, Heft 1, p. 35, 1914.
- 1519 WALKER, D. H. Aural vertigo. *Boston Med. and Surg. Jour.*, May 21, 1914.
- 1520 WELTY, C. F. Indication for the labyrinth operation, with report of eight cases that were not operated upon. *Ann. of Otol.*, p. 66, March, 1914; and *Cal. State Jour. of Med.*, p. 340, Aug., 1914.
- 1521 WILSON, J. G., and PIKE, F. H. Physiology of otic labyrinth. *Arch. of Intern. Med.*, Dec., 1914.
- 1522 WILSON, J. G., and PIKE, F. H. Relation of the labyrinth to the cerebellum and the cerebrum. *Trans. Am. Otol. Soc.*, May 27-28, 1914.
- 1523 WOLFF, I. Pathology of otosclerosis (ostitis chronica metaplastica). *Passows Beitr.*, Bd. 7, Heft 4-5, p. 274, 1914.
- 1524 ZALEWSKI, T. Quantitative examinations in caloric nystagmus. *Monatschr. f. Ohrenh.*, Heft 5, p. 694, 1914.
- 1525 ZANGE, J. Über das schallempfindende Endorgan im inneren Ohr. *Med. klin.* No. 8, 1914.
- 1526 ZANGE, J. Anatomy of the internal ear. *Med. Klinik*, Feb. 22, 1914.
- 1527 ZANGE, J. Relation of inflammatory processes in the labyrinth to degeneration in the nerve apparatus. *Arch. f. Ohrenh.* Bd. 93, Heft 3-4, p. 188, 1914.

Defects of Hearing.

- 1528 ADDISON, W. H. Present state of the education of the deaf in Scotland. *Volta Rev.*, p. 165, April, 1914.
- 1529 ALBRECHT, W. Radium treatment of the hard of hearing. *Pas-sows Beitr.*, p. 413, July 16, 1914.
- 1530 ANDREWS, H. U. Importance of nature study for deaf children. *Volta Rev.*, p. 192, April, 1914.
- 1531 ARRAUGH, L. L. Training the deaf child. *Volta Rev.*, p. 687, Oct., 1914.
- 1532 BARANY, R. Total deafness associated with the symptom-complex described by Barany, in which complete restoration of hearing occurred. *Jour. of Laryngol.*, p. 2, Jan., 1914.
- 1533 BELLOW, H. P. Anomalies of hearing. *Jour. of Ophthal., Otol. and Laryngol.*, p. 400, Sept., 1914.
- 1534 BEREZOVSKY, M. V. B. New attempts in the treatment of deafness. *Russky Vrach*, Vol. 13, No. 28, 1914.
- 1535 BRUHN, M. E. Methods in lip-reading. *Volta Rev.*, p. 747, Oct., 1914.
- 1536 BRYANT, W. S. Radium in middle-ear deafness caused by chronic suppuration. *N. Y. Med. Jour.*, p. 7, July 4, 1914.
- 1537 BRYANT, W. S. Use of aids to hearing and prostheses in middle-ear deafness. *Jour. of Laryngol.*, p. 12, Jan., 1914.
- 1538 BURTON, G. C. Deaf child and his education. *Cleveland Med. Jour.*, July, 1914.
- 1539 CHAPPELLIER. Deafness, etiology and treatment. *Paris Med.*, No. 15, 1914.
- 1540 CLEMENT, H. Physiology of audition. Re-education of ear. *Rev. hebdom. de Laryngol.*, p. 592, May 16, 1914.
- 1541 COBB, J. L. Teaching the abnormal deaf child. *Am. Ann. of Deaf*, p. 233, May, 1914.
- 1542 DAVIDSON, E. F. W. Lip-reading lessons. *Am. Ann. of Deaf*, p. 480, March and Nov., 1914.
- 1543 DE LAND, F. Pioneer pictorial presentation of mouth positions for use in teaching speech and speech-reading to the deaf. *Volta Rev.*, p. 455, July, 1914.
- 1544 DE PARREL, G. Results of a long experience in auditory re-education. *Arch. intern. de Laryngol.*, p. 152, Jan.-Feb., 1914.
- 1545 FERRETI, G. Notes on pedagogy and psychology in regard to the deaf. *Volta Rev.*, May-Oct., 1914.
- 1546 FERRETI, G. Pedagogy and psychology in regard to deaf. *Volta Rev.*, June-July, 1914.
- 1547 FINKELBERG. Bulbar paralysis and hearing disturbances following excess-current injury. *Monatschr. f. Unfallheilk. u. Invalidenw.*, No. 3, p. 691, 1914.
- 1548 FROESCHELS, E. Deaf-mutism. (Gehoer und Stumm Leit). *Med. Klinik*, Feb. 15, 1914.
- 1549 GARBINI, G. Personal results in cure of progressive deafness by means of fonoidic massage with the Maurice apparatus. *Boll. delle Mal. dell'Orecchio*, p. 217, Oct., 1914.
- 1550 GEYSER, A. C. Physiological treatment of catarrhal deafness. *N. Y. Med. Jour.*, p. 81, July 11, 1914.

- †1551 GOLDSTEIN, M. A. Deaf child—a plea for co-operation. *THE LARYNGOSCOPE*, p. 837, Oct., 1914.
- 1552 GREENE, J. B. Prevention of deafness. *South. Med. Jour.*, p. 499, June, 1914.
- 1553 HAENLEIN. Radium and mesothorium in defective hearing and tinnitus. *Passows Beitr.*, p. 423, July 16, 1914.
- 1554 HAUGHEY, W. Paracutic deafness; new explanation and treatment with report of two cases. *Mich. State Med. Soc. Jour.*, Feb., 1914.
- 1555 HAYCOCK, G. S. Early education of young deaf children. *Volta Rev.*, p. 33, Jan., 1914.
- 1556 HAYS, H. Symptoms and rational treatment of pocket-handkerchief deafness. *Interstate Med. Jour.*, p. 1069, Oct., 1914.
- *1557 HEGENER, J. Treatment of deafness and tinnitus. *Deut. med. Wchschr.*, Jan. 15, 1914.
- 1558 HOESSLI. Occupational impairment of hearing artificially produced. *Ztschr. f. Ohrenhk.*, Vol. 69, 1914.
- 1559 HOFFMANN, C. Singing-possibilities for those with defective hearing. *Vox*, p. 144, June 1, 1914.
- 1560 HOLINGER, J. Treatment of nerve deafness. *Ill. Med. Jour.*, Feb., 1914.
- 1561 HORNE, J. Gun deafness and its prevention. *Lancet*, Aug. 15, 1914.
- 1562 HOWSON, J. W. Teaching language to the deaf. *Am. Ann. of Deaf*, p. 214, May, 1914.
- *1563 HUBBY, L. M. Treatment of deafness with sonorous vibrations by the Zund-Burguet method. *Med. Rec.*, p. 200, Jan. 31, 1914.
- *1564 HUBBY, L. M. Sonorous vibrations in the treatment of ear diseases. *Jour. A. M. A.*, p. 2220, Dec. 19, 1914.
- 1565 JAEHNE, A. Anatomical changes in senile deafness. *Arch. f. Ohrenh.*, Bd. 95, Heft 3-4, p. 247, 1914.
- 1566 JELKS, F. W. Teach your deaf baby to talk. *Volta Rev.*, p. 773, Nov., 1914.
- 1567 KITSON, H. D. Role of association in lip-reading. *Volta Rev.*, p. 619, Sept., 1914.
- *1568 LAKE, R. So-called re-education of the deaf. *Lancet*, May 23, 1914.
- *1569 LAIME, E. Re-education of the ear. *Ann. des Mal. de l'Oreille*, No. 4, p. 368, 1914.
- 1570 LEVY, A. Tests of hearing. *Jour. Ophth. Otol. and Laryngol.*, p. 169, April, 1914.
- 1571 LUEKEN, E. A. Deafness following fracture of base of skull. *Arch. f. Klin. Chir.*, Vol. 104, No. 4, 1914.
- 1572 MARAGE. Acoustic and clinical means of auditory re-education. *Arch. intern. de Laryngol.*, p. 458, March-April, 1914.
- 1573 MARAGE. Re-educating the ear by exercising the hearing with small siren. *Bull. de l'Acad. de Med.*, Jan. 20, 1914.
- 1574 MAURICE, A. Chronic deafness and acoustic exercises. *Arch. intern. de Laryngol.*, p. 807, May-June, 1914.
- 1575 MUECKE, F. F. Auditory re-education. *Jour. of Laryngol.*, p. 524, Nov., 1914.
- 1576 MUNDT, G. H. Subjective tests of hearing. *Ill. Med. Jour.*, Feb., 1914.

- 1577 MYGIND, H. Pathology of acquired deaf-mutism. *Passows Beitr.*, p. 389, July 16, 1914.
- 1578 NAGER, F. R. Recognition of deafness, due to influenza. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 102, 1914.
- 1579 NITCHIE, E. B. Lip-reading teachers' equipment and opportunities. *Volta Rev.*, p. 801, Dec., 1914.
- 1580 NITCHIE, E. B. Methods vs. system in the teaching of lip-reading. *Volta Rev.*, p. 826, Dec., 1914.
- 1581 NITCHIE, E. B. To be or not to be, a little preachment about deafness. *Volta Rev.*, p. 53, Feb., 1914.
- 1582 OPPIKER, E. Anatomy of congenital deafness. *Ztschr. f. Ohrenh.*, Bd. 72, Heft 1, p. 1, 1914.
- 1583 PANSE, R. Anatomy of acquired deafness. *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2, p. 22, 1914.
- 1584 PASSOW, A. Treatment of disturbances in hearing and subjective noises. *Med. Klinik*, p. 753, May 3, 1914.
- 1585 PIERCE, J. A. Experience system of speech-reading. *Volta Rev.*, p. 739, Oct., 1914.
- 1586 PIERCE, J. A. Psychology of speech-reading. *Volta Rev.*, p. 56, Feb., 1914.
- 1587 RHESE, H. Auditory disturbances in diseases of the central auditory apparatus. (Beitrag zur Frage der Hoerstoerungen bei Erkrankungen der zentralen Hoerbahn und des Akustikustammes mit besonderer Beruecksichtigung eines Falles von Kleinhirn-brueckenwinkeltumor). *Passows Beitr.*, Bd. 7, Heft 4-5, p. 262, 1914.
- 1588 ROBERTS, E. A Southern oral school. *Volta Rev.*, p. 793, Nov., 1914.
- 1589 ROSS, A. Phenomena of gun deafness. *Lancet*, Sept. 5, 1914.
- 1590 ROTHMANN, M. Differential diagnostic significance of Barany's test. (Zur differentialdiagnostischen Bedeutung der Baranyschen Zeigerversuchs). *Neurol. Zntribl.*, p. 3, No. 1, 1914.
- 1591 ROUBINOVITCH, J. Gratifying results of special training for certain mentally defective children. *Bull. de l'Acad. de Med.*, Vol. 78, Nos. 26-28, p. 879, 1914.
- 1592 SANDERS, G. T. Instructors of parents of deaf children. *Volta Rev.*, p. 812, Dec., 1914.
- 1593 STIMSON, G. W. Deaf-mutism (labyrinthine deafness) as a result of purpura hemorrhagica. *Jour. A. M. A.*, p. 1723, May 30, 1914.
- 1594 STONE, E. A. Reading for the deaf. *Am. Ann. of Deaf*, p. 131, March, 1914.
- 1595 STORY, A. J. Parent is the first teacher. *Volta Rev.*, p. 775, Nov., 1914.
- 1596 STORY, W. Anomalies in tone perception. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 1, 1914.
- 1597 TORREY, G. Lip-reading for the adult deaf. *Volta Rev.*, p. 535, Aug., 1914.
- 1598 TRASK, A. N. Plea for the hard of hearing. *Volta Rev.*, p. 693, Oct., 1914.
- 1599 TRASK, A. N. Where instruction in lip-reading is helpful. *Volta Rev.*, p. 823, Dec., 1914.

- 1600 TRETROP. Auditory disorders of telephonic origin. *Presse Oto-Laryngol. Belge*, p. 275, June, 1914.
- §1601 VAN BAGGEN, N. J. P. Progress of education of the deaf and dumb and some of the difficulties of aural instruction. *Med. Rec.*, p. 921, May 23, 1914; *THE LARYNGOSCOPE*, p. 134, March, 1915.
- 1602 WALLIS, F. E. Plea for the hard-of-hearing. *Volta Rev.*, p. 529, Aug., 1914.
- 1603 WORCESTER, M. J. Nuealler-Walle method of lip-reading for adult deaf. *Me. Med. Ass'n Jour.*, Dec., 1915.
- 1604 WORCESTER, E. B. To mothers of little deaf children. *Volta Rev.*, June and Aug., 1914.
- 1605 WRIGHT, J. D. Economic significance of deafness. *Volta Rev.*, p. 28, Jan., 1914.
- 1606 WRIGHT, J. D. "Combined system" diagnosis its own case with remarkable truth and frankness. *Volta Rev.*, p. 699, Oct., 1914.
- †1607 WRIGHT, J. D. Editorial—The educational needs of the deaf. *THE LARYNGOSCOPE*, May-July-Aug., 1914.
- †1608 WRIGHT, J. D. Editorial—The medical inspection of school children with special reference to the medical inspection of deaf children. *THE LARYNGOSCOPE*, p. 955, Nov., 1914.
- 1609 WRIGHT, J. D. Was the ultimate elimination of oralism foreseen? *Volta Rev.*, p. 639, Sept., 1914.
- 1610 WRIGHT, J. D. Whose cause is it? *Volta Rev.*, p. 776, Nov., 1914.
- 1611 YOUNG, H. B. Sociologic aspect of deafness, congenital or acquired in early life, with a suggestion for a betterment through indirect effort. *Ann. of Otol.*, p. 827, Dec., 1914.

General.

- 1612 ABRANOVITSCH, H. Disturbances in the counter-rolling of the eyes in diseases of the ear. *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2, p. 138, 1914.
- 1613 ALAGNA, G. Occurrence of mitochondrial formations in ear (acoustic ganglions, stria vascularis, organ of Corti) of some mammals. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 19, 1914.
- 1614 AMBERG, E. Injuries to head, and ear disturbances. *Mich. State Med. Soc. Jour.*, Feb., 1914.
- *1615 ARNAL, R. Local anesthesia in operations on the auditory apparatus. *Rev. hebdom. de Laryngol.*, March 14-21, 1914.
- 1616 AUERBACH, F. Otological examinations in the public schools in Lippe. *Monatschr. f. Ohrenh.*, Heft 4, p. 590, 1914.
- 1617 BAR, L. Osteo-myelitis of the petrous portion of the temporal bone. *Ann. des Mal. de l'Oreille*, No. 6, p. 568, 1914.
- 1618 BARANY. Two errors of diagnosis. *Arch. intern. de Laryngol.*, March-April, 1914.
- 1619 BARD, L. Differentiation between peripheral and central paralysis of auditory nerve. *Semaine Med.*, p. 181, April 22, 1914.
- 1620 BARFORD, A. M. Case of ear cough. *Brit. med. Jour.*, p. 368, Feb. 21, 1914.
- 1621 BECK, J. C. Cases of interdependence of oto-laryngology, rhinology and dentistry. *Ill. Med. Jour.*, Nov., 1914.

- 1622 BECK, O. Fistula symptom in non-suppurative diseases of the ear. *Ann. of Otol.*, p. 156, March, 1914.
- 1623 BILANCIONI, G. Abscess in the neck of otitic origin. *Polliclin.*, Oct. 11, 1914.
- †1624 BORDEN, C. R. C. Aural complications of the exanthemata. *THE LARYNGOSCOPE*, p. 773, Sept., 1914.
- *1625 BROECKAERT, J. Otitic paralysis of the external oculo-motor associated with neuralgia of the trigeminus with operation and cure. *Presse oto-laryngol. Belge*, No. 7, p. 305, 1914.
- 1626 BROWN, H. B. On the treatment of furunculosis of the ear with vaccines. *Am. Jour. of Surg.*, p. 260, July, 1914; *Ann. of Otolgy*, p. 600, Sept., 1914.
- 1627 BRYANT, W. S. Notes on the use of radium in treatment of diseases of the ear. *Med. Rec.*, Aug., 29, 1914.
- 1628 CANFIELD, R. B. Case of otitic streptococcic bacteremia. *Mich. State Med. Soc. Jour.*, Aug., 1914.
- 1629 CHAUVEAU, C. Evolution of physiology of the ear during the last years. *Arch. intern. de Laryngol.*, Jan.-June, 1914.
- 1630 CLAUS. The ear and the general practitioner. *Therap. d. Gegenw.*, Jan., 1914.
- †1631 COATES, G. M. Bacterins in the treatment of diseases of the ear. *THE LARYNGOSCOPE*, p. 677, July, 1914.
- 1632 DABNEY, V. Herpes zoster oticus, a critical review with report of a case. *N. Y. Med. Jour.*, p. 272, Feb. 7, 1914.
- †1633 DABNEY, V. Vaccine therapy in ear disease. Further contribution to the study of the subject. *THE LARYNGOSCOPE*, p. 866, Oct., 1914.
- 1634 DEDEK, B. Muscular murmur of ear. *Monatschr. f. Ohrenh.*, Heft 3, p. 340, 1914; and *Casopis lekaruv ceskych*, No. 3, 1914.
- 1635 DELSAUX, V. Traumatism of the ear and of petrous portion of temporal bone. *Presse Oto-Laryngol. Belge*, No. 3, p. 137, 1914.
- †1636 DORAN, W. G. Anesthesia in aural surgery. *THE LARYNGOSCOPE*, p. 600, June, 1914.
- 1637 EITNER, E. Restoration of ear. *Muench. med. Wchnschr.*, July 28, 1914.
- 1638 ERWIN, I. Ear and throat complication of leukemia and pseudo-leukemia. *N. Orleans Med. and Surg. Jour.*, Feb., 1914.
- 1639 ESCAT, E. Audibility of sound. Applications to physiology and pathology of hearing. *Ann. des Mal. de l'Oreille*, No. 4, p. 329, 1914.
- 1640 ESCHWEILER. Excess-current injury of the acoustic centers. *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2, p. 115, 1914.
- *1641 FARRELL, T. H. Tuberculous affections of ear. *N. Y. State Jour. of Med.*, March 21, 1914.
- †1642 FERRERI, G. Operative disposal of chronic suppuration of the ear. *THE LARYNGOSCOPE*, p. 81, Feb., 1914.
- †1643 FRIEDBERG, S. A. Etiology, diagnosis and treatment of aural complications of the exanthemata. *THE LARYNGOSCOPE*, p. 783, Sept., 1914.
- 1644 GEIGER, G. W. Relation of nasal troubles to catarrhal conditions of ear. *Ill. Med. Jour.*, Feb., 1914.

- 1645 GIGNOUX, A. Otic paralysis of external oculo-motor. (Paralysie otique du moteur oculaire externe associee a l'atteinte du trijumeau). *Rev. hebd. de Laryngol.*, p. 161, Feb. 7, 1914.
- 1646 GOLDMANN, R. Effect of adrenalin on ear. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 72, 1914.
- 1647 GOLDMANN, R. War injuries affecting the ears. *Med. Klinik*, Nov. 22, 1914.
- 1648 GRADENIGO, G. Susceptibility of ear to the various registers of the scale. (Über die Empfindlichkeit des Gehörorgans fuer die verschiedenen Regionen des Tonleiters). *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2; p. 103, 1914; *Arch. ital. di Otol.*, Sept., 1914.
- 1649 HAENLEIN. Indirect injury of ear from explosives. *Med. Klin.*, Oct. 4, 1914.
- 1650 HAIKE. Sensory anusia in perception of timbre. *Monatschr. f. Ohrenh.*, Heft 2, p. 249, 1914.
- 1651 HALLAS, E. A. Cancer of the ear; three cases. *Ugesk. f. Leger*, p. 1627, Sept. 17, 1914.
- 1652 HARRIS, C. M. Some important factors in the conservation of hearing. *Med. Rec.*, p. 478, March 14, 1914.
- 1653 HARRIS, T. J. Recent developments in otology. *N. Y. State Jour. of Med.*, Nov., 1914.
- *1654 HASKINS, W. H. Use of vaccines in chronic ear infections with report of cases treated. *Am. Jour. of Surg.*, p. 253, July, 1914; and *Ann. of Otol.*, p. 582, Sept., 1914.
- 1655 HAYS, H. Tuberculosis of the ear. *Interstate Med. Jour.*, p. 374, March, 1914.
- 1656 HIRSCH, C. Influenza bacilli in ear. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 12, 1914.
- 1657 HOFER. Injuries of ear. *Wr. med. Wchnschr.*, Nos. 44-45, 1915.
- *1658 HOLMES, E. M. Aural complications in typhoid fever. *Ann. of Otol.*, p. 555, Sept., 1914.
- 1659 IWATA, H. Anatomy of the ear in the Japanese. *Mitteil. a. d. med. Fak. d. K. Univ. Tokyo*, Vol. 11, No. 1, 1914.
- §1660 JACKSON, C. Causes, symptoms, pathology, diagnosis and treatment. *Trans. Am. L. R. and O. Soc.*, June 19-20, 1914; *THE LARYNGOSCOPE*, p. 1000, Dec., 1914.
- 1661 JAEHNE, A. Herpes zoster oticus. *Arch. f. Ohrenh.*, Bd. 93, Heft 3-4, p. 178, 1914.
- 1662 KOMENDANTOW, L. E. Pathologic anatomy of peculiarities of the ear in rachitis and their significance. *Monatschr. f. Ohrenh.*, Heft 4, p. 582, 1914.
- 1663 KREIDL, A. Subsidiary acoustic tracts. *Monatschr. f. Ohrenh.*, Heft 1, p. 1, 1914.
- 1664 KRIMSKY, J. Running ears and the burden of responsibility. *Med. Phar. Critic and Guide*, p. 13, Jan., 1914.
- 1665 KUEMMEL, W. Injury of the ears in the war. *Deut. med. Wchnschr.*, Oct. 29, 1914.
- 1666 KUEMMEL, W. Operative treatment of general sepsis originating in the ear. *Deut. med. Wchnschr.*, p. 993, May 14, 1914.
- 1667 LABOURE, J. Chronic otorrhea complicated by cervico-cerebellar abscess. Cure. *Arch. intern. de Laryngol.*, p. 117, Jan.-Feb., 1914.

- 1668 LANGE, V. Polypragmasia in ear surgery. *Arch. intern. de Laryngol.*, p. 182, Jan.-Feb., 1914.
- 1669 LEIDLER, R. Anatomy and function of the nucleus Bechterew. *Monatschr. f. Ohrenh.*, Heft 3, p. 321, 1914.
- 1670 LEIDLER, R. Orogenous abscess in temporal lobe. *Med. Klinik.*, Jan. 18-25, 1914.
- 1671 LINICK. Local anesthesia in operations on the external and middle ear. *Arch. f. Ohrenh.*, Bd. 95, Heft 3-4, p. 304, 1914.
- 1672 MAURICE, A. Muscular phenomenon. *Monatschr. f. Ohrenh.*, Heft 3, p. 352, 1914.
- 1673 MAURICE, A. Nascent iodine in ear and throat work. *Arch. gen. de Med.*, Feb., 1914.
- 1674 McMAXUS, T. U. Conservation of hearing. *Iowa State Med. Soc. Jour.*, p. 109, Aug., 1914.
- 1675 MENDEL. Diathermia and its application in otology. *Deut. med. Wchnschr.*, No. 1, p. 25, 1914.
- 1676 NAKAMURA, Y. Contribution to the pathology of neuritis acustica alcoholica. (Experimentelle Untersuchungen über die Einwirkung des Aethyl- und Methyl alkohol auf das Gehörorgan. Ein Beitrag zur Pathogenese der Neuritis acustica alcoholica). *Passow's and Schaeffer's Beitr.*, VIII, H. 1-3, Dec., 1914.
- 1677 NAKAMURA, Y. Myelinoid substance in the hair cells of the organ of Corti. *Passow's Beitr.*, Vol. 8, Heft 1-3, p. 158, 1914.
- 1678 PETERS, W. E. Note on some intonation curves. *Vox*, p. 30, Feb., 1914.
- 1679 PEYSER, A. Industrial ear affections. *Zntrbl. f. Ohrenh.*, Bd. 12, Heft 8, p. 317, 1914.
- 1680 PHILLIPS, W. C. Conservation of hearing function. *Lancet-Clin.*, p. 117, Aug. 1, 1914.
- 1681 PIERCE, N. H. Operations for cure of chronic ear suppuration. *Lancet-Clinic.*, p. 1, July 4, 1914.
- 1682 POSPISCHIL, V. Noviform in the treatment of chronic otitis. *Casopis lek. ceskych*, No 23, 1914.
- 1683 RANDALL, B. A. Various otitic facial paralyses. *Trans. Am. Otol. Soc.*, May 27-28, 1914.
- 1684 RANDALL, B. A. Practical differential test of hearing. *Pa. Med. Jour.*, Jan., 1914; and *Lancet-Clinic*, May 30, 1914.
- 1685 SENATOR, M. Erosion of the ear as an occupational accident. (Veraetzung des Ohres als Betriebsunfall). *Passow's Beitr.*, Bd. 7, Heft 4-5, p. 254, 1914.
- §1686 SCHWARZ, A. A quick and effective remedy for otalgia. *Monatschr. f. Ohrenh.*, Heft 3, p. 334, 1914; *THE LARYNGOSCOPE*, p. 830, Sept., 1914.
- 1687 SHAEFFER, K. L. Functional otologic diagnosis. (Ueber Starkdruckflammen in ihrer Beziehung zur funktionellen otiatrischen Diagnostik). *Passows Beitr.*, Bd. 7, Heft 4-5, p. 249, 1914.
- 1688 SHAMBAUGH, G. E. Surgical anatomy of the temporal bone. A lantern demonstration. *Trans. Am. Otol. Soc.*, May 27-28, 1914.
- 1689 SHEPPARD, J. E. Economic importance of diseases of ear in school children. *N. Y. State Jour. of Med.*, July, 1914.

- 1690 SHEPPARD, J. E. Hereditary syphilis in the ear. *L. Island Med. Jour.*, Aug., 1914.
- *1691 SOBOTKY, I. Significance of earache. *Boston Med. and Surg. Jour.*, Feb. 26, 1914.
- 1692 SPIRA, R. Heredity of auricular affections. *Monatschr. f. Ohrenh.*, Heft 3, p. 354, 1914.
- 1693 STEIN, O. J. Syphilis of the ear. *Ann. of Otol.*, p. 116, March, 1914.
- 1694 STORY, A. J. How the education of the deaf is financed in England. *Volta Rev.*, p. 246, May, 1914.
- 1695 STRUCKEN, H. Analysis of sound curves. *Vox*, p. 169, Aug. 1, 1914.
- 1696 STURM, F. P. New theory of hearing. *Jour. of Laryngol.*, p. 193, April, 1914.
- 1697 SWAINSON. Education of the deaf in India. *Volta Rev.*, p. 173, April, 1914.
- 1698 THOMAS, E. Case of webbed fingers and toes and deformity of the ears. *Ztschr. f. Kinderh.*, Vol. 10, Nos. 2-4, 1914.
- 1699 TRETROP. Auditory disturbances of telephonic origin. *Presse Oto-laryngol. belge*, Vol. 13, 1914.
- 1700 URBANTSCHITSCH, V. Several aural cases treated with radium. *Arch. f. Ohrenh.* Bd. 96, Heft 1-2, p. 15, 1914.
- 1701 VALY, E. Affections of acoustic nerve in lues. *Monatsch. f. Ohrenh.*, Heft 2, p. 260, 1914.
- 1702 VAN CANEGHEM, D. Noma of the ear. *Presse Oto-Laryngol. Belge*, No. 3, p. 125, 1914.
- 1703 VOLPE, M. Radiographic examination of the ear. (L'esame radiografico dell'orecchio). *Boll. delle Mal. dell'Orecchio*, p. 105, May, 1914.
- 1704 VOSS, D. Etiology of affections of inner ear in parotitis epidemica. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 58, 1914.
- 1705 WHALE, H. L. Otorrhea. *Practitioner*, Sept., 1914.
- 1706 WISHARD, J. G. Conservation of hearing. *Cleveland Med. Jour.*, Sept., 1914.
- 1707 YEARSLEY, M. Errors of diagnosis in ear diseases. *Clin. Jour.*, p. 577, Dec. 17, 1914.

VII. MASTOID AND INTRA-CRANIAL COMPLICATIONS.

Mastoid.

- 1708 ANDREWS, A. H. Blood-clot method in mastoid operations. *Jour. of Ophth. and Oto-Laryngol.*, p. 42, Feb., 1914; and *Ill. Med. Jour.*, Feb., 1914.
- 1709 AYNESWORTH, H. T. Radical mastoid cases; some causes of failure in this class of work. *Tex. State Jour. of Med.*, Jan., 1914.
- 1710 BACON, G. Laboratory aids in the diagnosis of acute mastoid disease due to acute purulent otitis media. *Med. Rec.*, p. 1, July 4, 1914.

- 1711 BARATOUX. Radical conservative operation. (Sur l'operation radicale dite conservatrice). *Arch. intern. de Laryngol.*, p. 120, Jan.-Feb., 1914.
- 1712 BERNSTEIN, E. J. Mastoiditis. *Mich. State Med. Soc. Jour.*, Feb., 1914.
- 1713 BERRANGER, A. Pseudo-primary mastoiditis. *Rev. hebd. de Laryngol.*, p. 70, Jan. 17, 1914.
- 1714 BLACKWELL, H. B. Two obscure cases of resolving mastoiditis. Operative indications. *Ann. of Otol.*, p. 588, Sept., 1914.
- 1715 BLUMENTHAL, A. Therapy of difficulty healing, mastoid wounds in childhood. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 77, 1914.
- *1716 BONDY, G. New bone formation after mastoid operation. *Monatschr. f. Ohrenh.*, Heft 4, p. 568, 1914.
- *1717 BRAISLIN, W. C. The use of vaccines after the mastoid operation. *Ann. Otol. Rhinol. and Laryngol.*, V. XXII, 1914.
- *1718 BRYANT, W. S. Modified and conservative radical mastoid operations for tolerance or prostheses in cases of diminished hearing after middle-ear suppuration. *Med. Rec.*, p. 64, July 11, 1914.
- 1719 CANDELA. Two cases of mastoiditis without perforation of tympanic membrane. *Cron. Med.*, Jan., 1914.
- *1720 CANESTRO, C. Parotid fistulae following mastoid operations. *Ann. of Otol. Rhinol. and Laryngol.*, V. 23, 1914.
- 1721 COATES, G. M. Case of myiasis aurium accompanying the radical mastoid operation. *Jour. A. M. A.*, p. 479, Aug. 8, 1914.
- 1722 DABNEY, V. Diabetes mellitus following interval operation of bilateral mastoidectomy and unilateral exenteration of ethmoid, sphenoid and maxillary sinuses. *Med. Rec.*, p. 510, Sept., 19, 1914.
- 1723 DAVIS, G. E. Double radical mastoidectomy in dementia precox with phenomenal improvement in mental and physical conditions. *Ann. of Otol.*, p. 597, Sept., 1914.
- *1724 DELSAUX, V. Treatment after mastoid operations. *Presse Oto-Laryngol. Belge*, No. 2, p. 65, 1914.
- *1725 DIGHTON, A. Blood-clot method as applied to mastoid operation. *Practitioner*, June, 1914.
- §1726 ERWIN, I. A case of mucous mastoiditis. *New Orleans Med. and Surg. Jour.*, Dec., 1914; *THE LARYNGOSCOPE*, p. 373, June, 1915.
- 1727 FRONING, F. Conservative and incomplete radical operation of ear (attico-antrotomy). *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 121, 1914.
- 1728 GERBER, P. Eleven hundred mastoid operations, a reminiscence. *Arch. f. Ohrenh.*, Bd. 96, Heft 1-2, p. 49, 1914.
- †1729 GOLDBACH, L. J. Squamous epithelioma of the middle-ear and mastoid. *THE LARYNGOSCOPE*, p. 128, Feb., 1914.
- 1730 HALL, G. C. Surgical judgment in operations for acute mastoiditis. *Ky. Med. Jour.*, June 15, 1914.
- 1731 HAYS, H. Latent mastoiditis. *Am. Jour. of Surg.*, p. 265, July, 1914.
- 1732 HICKEY, P. M. Anterior posterior position for mastoid Roentgenography. *Am. Jour. of Roentgenol.*, June, 1914.
- *1733 INGERSOLL, J. M. Operative findings and results in mastoiditis, acute and chronic. *N. Y. State Jour. of Med.*, March 21, 1914.

- 1734 JONES, W. D. Acute mastoiditis; report of cases. *Tex. State Jour. of Med.*, Jan., 1914.
- 1735 KIRCHNER, C. Fracture of base of skull involving mastoid process; treatment. *Muench med. Wchnschr.*, March 10, 1914.
- 1736 KNEEDLER, G. C. Acute suppurative mastoiditis. *Pittsburgh Med. Jour.*, p. 1, July, 1914.
- 1737 KOPETZKY, S. Case of latent mastoiditis complicated by toxic and irritative cerebral symptoms accompanied by blindness and a streptococemia caused by trauma. Operation. Recovery. *Ann. of Otol.*, p. 391, June, 1914.
- 1738 LANGE, S. Practical results in Roentgen ray examination of mastoid. *Am. Jour. of Roentgenol.*, p. 313, June, 1914.
- 1739 LANIER, L. H. Mastoid disease; report of some operative cases. *Med. Fortnightly*, p. 295, Sept. 10, 1914.
- 1740 LEDOUX, L. Bezold's mastoiditis. *Ann. de la Policlin. cntrl.*, p. 203, May, 1914.
- 1741 LESLIE, F. A. Experiences with Heath mastoid operation. *O. State Med. Jour.*, April, 1914.
- *1742 LOTHROP, O. A. Roentgenographic study of the mastoid. *Boston Med. and Surg. Jour.*, March 5, 1914.
- 1743 MACKENZIE, G. W. Some observations made in atypical cases of mastoiditis. *Jour. Ophthal. Otol. and Laryngol.*, p. 526, Nov., 1914.
- 1744 MAHU, G. Treatment of chronic mastoid disease. *Presse Med.*, p. 349, May 9, 1914.
- 1745 MASON, A. B. Acute mastoiditis, report of four patients treated with vaccines. *Ga. Med. Assn. Jour.*, Feb., 1914.
- *1746 MAURICE, O. Two spontaneous petro-mastoid enucleations. *Rev. hebdom. de Laryngol. d'Otol. et de Rhinol.*, June, 1914.
- 1747 McCANNEL, A. D. Mastoidectomy with report of cases. *Jour.-Lancet*, Feb. 15, 1914.
- 1748 McCaw, J. F. Need of more accurate knowledge in diagnosis of mastoiditis by general practitioner. *N. Y. State Jour. of Med.*, Aug., 1914.
- *1749 MITHOEFFER, W. Latent mastoiditis. *Lancet-Clinic*, May 9, 1914.
- 1750 MOORE, R. W. Primary and secondary blood-clot in mastoidectomy. *Tex. State Jour. of Med.*, May, 1914.
- §1751 MOURE, E. J. Immediate closure after antrotomy in acute mastoiditis. *Rev. hebdom. de Laryngol.*, p. 513, May 2, 1914; *THE LARYNGOSCOPE*, p. 607, June, 1914.
- 1752 MOURET, J. Preferable site for trepaning mastoid antrum. *Ann. des Mal. de l'Oreille*, No. 3, p. 232, 1914.
- 1753 MYGIND, H. Secondary suture after opening of mastoid process. *Monatschr. f. Ohrenh.*, Heft 2, p. 241, 1914.
- 1754 PFINGST, A. O. Sequestrum from mastoiditis in child. Report of case. *L'ville Monthly Jour. of Med. and Surg.*, p. 81, Aug., 1914.
- 1755 PYFER, H. F. Early recognition of mastoid disease and early operative procedures to prevent loss of hearing. *Pa. Med. Jour.*, Feb., 1914.
- 1756 SHARP, J. C. When the radical mastoid is imperative. *Ann. of Otol.*, p. 74, March, 1914.

- 1757 TEXIER, V. and LEVESQUE. Clinical considerations of three hundred cases of antrotomy for acute mastoiditis. *Rev. hebdomadaire de Laryngologie*, June 20-27, 1914.
- *1758 TOMLIN, W. S. Mastoiditis—a complication and an entity. *Interstate Medical Journal*, p. 145, Feb., 1914; and *Journal of Ophthalmology and Oto-Laryngology*, p. 286, Sept., 1914.
- 1759 TOUBERT, J. Bullet wounds of the mastoid process in war. *Archiv international de Laryngologie*, p. 711, May-June, 1914.
- 1760 UFFENORDE, W. Mastoid operation as practiced in the Goettingen ear clinic. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 1, 1914.
- §1761 WEISSMANN, E. Dressings after mastoid operation. *Rev. hebdomadaire de Laryngologie*, p. 545, May 9, 1914; *THE LARYNGOSCOPE*, p. 797, Sept., 1914.
- *1762 WILSON, W. Two unusual cases of mastoiditis in children. *British Medical Journal*, p. 398, Feb. 21, 1914.

Lateral Sinus.

- 1763 BLACK, W. D. Suggestions in diagnosis and treatment of thrombosis of the lateral sinus. *Medical Fortnightly*, p. 101, March 10, 1914.
- 1764 HAHN, R. Anomaly of lateral sinus. *Archiv ital. di Otol.*, p. 209, June, 1914.
- 1765 JONES, H. E. Some considerations which determine the extent of an operation in septic invasion of the lateral sinus. *Surgical Gynecology and Obstetrics*, p. 747, Dec., 1914.
- 1766 JONES, W. D. Case of lateral sinus thrombosis. *Texas State Journal of Medicine*, Nov., 1914.
- 1767 MATHEWSON, G. H. Four cases of thrombosis of the lateral sinus with recovery. *Canadian Medical Association Journal*, p. 508, June, 1914.
- 1768 PRINGST, A. O. Relation of lateral sinus to mastoid operation. *South. Medical Journal*, May, 1914.

Intra-cranial Complications and Brain Abscess.

- 1769 ABOULKER, H. Extra-dural abscess of otitic origin and paralysis of the external oculo-motor nerve. *Bulletin d'oto-rhino-laryngologie*, p. 209, July, 1914.
- 1770 BAER, A. Intra-cranial complications following abscess in middle-ear. *California State Journal of Medicine*, June, 1914.
- 1771 BARDES, A. Intra-cranial diseases from the ear. *New York Medical Journal*, p. 1117, Dec. 5, 1914.
- 1772 BERNSTEIN, E. P. Brain abscess due to the bacillus coli communis. *Medical Record*, p. 249, Feb. 7, 1914.
- *1773 BLUMENTHAL, A. Surgery of cerebellar abscess of otitic origin. *Monatschrift f. Ohrenh.*, Vol. 48, Heft 10, 1914.
- 1774 BRAUN, A. and FRIESNER, I. Diagnosis of endo-cranial complications of suppurative labyrinthitis. *Annals of Otol.*, p. 9, March, 1914.
- 1775 DANZIGER, E. Report of cases illustrating intra-cranial complications in purulent middle-ear disease. *American Journal of Surgery*, p. 74, Feb., 1914.
- 1776 DIGHTON, A. Case of cerebellar abscess with atypical symptoms—recovery. *Annals of Otol.*, p. 81, March, 1914.

- †1777 FREUDENTHAL, W. Brain infection from sinus disease. *THE LARYNGOSCOPE*, p. 12, Jan., 1914.
- 1778 FRIESNER, I. Case of simultaneous bilateral cavernous sinus thrombosis twelve hours after a simple mastoid operation. *Ann. of Otol.*, p. 410, June, 1914.
- 1779 GELLER, K. Total evidement of the mastoid process followed by hysterical attacks which point to cerebellar abscess. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 283, 1914.
- 1780 HARKNESS, G. F. Intra-cranial pathology and fundus changes. *Iowa State Med. Soc. Jour.*, Aug., 1914.
- *1781 HIRSCHMANN, B. Otitis media and brain tumor. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 230, 1914.
- 1782 INGERSOLL, J. M. Temporo-sphenoidal abscess secondary to chronic suppurative otitis media. Operation. Recovery. Radiographic findings. *Ann. of Otol.*, p. 404, June, 1914; and *Cleveland Med. Jour.*, July, 1914.
- †1783 KERRISON, P. D. Barany's theory of cerebellar localization; diagnostic value of the pointing test in cerebellar abscess. *THE LARYNGOSCOPE*, p. 192, March, 1914.
- 1784 MAIER, M. Experiences with otitic brain abscess. *Arch. f. Ohrenh.*, Bd. 95, Heft 3-4, p. 163, 1914.
- 1785 MANN, M. New symptom in cerebellar abscess. *Munch. med. Wchnschr.*, No. 16, p. 877, 1914.
- 1786 MARGULIES, A. Orbitogenic frontal brain abscess. *Prag. med. Wchnschr.*, No. 6, 1914.
- 1787 MEIERHOF, E. L. Thrombo-phlebitis of the sigmoid sinus of otitic origin without local manifestations. *Jour. A. M. A.*, p. 1389, Oct. 17, 1914.
- 1788 MURPHY, J. W. Mastoid complications. *O. State Med. Jour.*, Aug., 1914.
- 1789 MYGIND, H. Most frequent form of otitic brain abscesses. *Arch. f. Ohrenh.*, Bd. 93, Heft 3-4, p. 269, 1914.
- 1790 ONODI. Oculo-orbital intra-cranial and cerebral complications of nasal origin. *Pester med. chir. Presse*, Nos. 19-20, 1914.
- 1791 PERKINS, C. E. Cerebellar abscess. *Ann. of Otol.*, p. 413, June, 1914.
- 1792 PFISTER, F. Two cases of otitic brain abscess showing the necessity of early mastoid operation. *Wis. Med. Jour.*, March, 1914.
- 1793 PIFFEL, O. Rhinogenous frontal brain abscess. (Rhinogenen Stirnhirnabscesse). *Prag. med. Wchnschr.*, No. 6, 1914.
- 1794 POOLEY, T. R. Cavernous sinus thrombosis. *N. Y. State Jour. of Med.*, Aug., 1914.
- 1795 REIK, H. O. Brain abscess. *Tenn. State Med. Assn. Jour.*, p. 99, July, 1914.
- 1796 RYLAND, A. Case of temporo-sphenoidal abscess in the course of chronic otitis media. *Brit. Med. Jour.*, p. 754, April 4, 1914.
- 1797 SCHMIDT, C. J. M. Case of thrombo-phlebitis of the cranial sinus following acute otitis media. Septic course. Jansen operation. Death in 36 days. *Monatschr. f. Ohrenh.*, Heft 2, p. 270, 1914.
- †1798 SHARPE, W. Diagnosis and treatment of brain abscess. *THE LARYNGOSCOPE*, p. 201, March, 1914.

- 1799 SIEUR. Route of intra-cranial infection from sinusitis. *Bull. de l'Acad. de Med.*, Feb. 17, 1914.
- 1800 WHALE, H. L. Case of conservative operation for cerebral abscess of otitic origin. *Brit. Med. Jour.*, p. 1293, June 13, 1914.
- 1801 WILKINSON, G. Case of paralysis of the external rectus muscle due to the presence of an abscess in the apex of the petrous pyramid. Death from nasal meningitis. *Jour. of Laryngol.*, p. 409, Aug., 1914.
- 1802 ZANGE, J. Use of Abderhalden's dialysis process in intra-cranial complications following aural and nasal affections. *Arch. f. Ohrenh.*, Bd. 93, Heft 3-4, p. 171, 1914.
- §1803 ZIMMERMANN, A. Use of the Abderhalden dialyser test in intra-cranial otogenous complication with remarks on the organic specificity of prophylactic ferment (Abderhalden) based on animal experimentation and clinical study. *Ztschr. f. Ohrenh.* Bd. 71, Heft 3-4, p. 133, 1914; *THE LARYNGOSCOPE*, p. 22, Feb., 1915.
- 1804 ZWILLINGER, H. Mechanism of intra-cranial and cerebral complications of frontal sinus inflammations. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 271, 1914.

Meningitis.

- 1805 AGAZZI, B. Pathologic anatomy of the upper respiratory tract, ear and basal nerves of brain in Weichselbaum's meningitis. *Arch. f. Ohrenh.*, Bd. 95, Heft 1-2, p. 1, 1914.
- 1806 BARNES, A. E. and KERR, W. S. Case of otitic meningitis and cerebellar abscess with recovery. *Brit. Med. Jour.*, p. 587, March 14, 1914.
- 1807 BARNHILL, J. F. Two cases of sarcoma of the dura mater arising in the vicinity of the mastoid process with vague symptoms simulating mastoiditis. Operation in each case followed by ultimate death. *Ann. of Otol.*, p. 381, June, 1914.
- 1808 BECK, O. Fatal purulent meningitis after suppurative tonsillitis. *Wk. klin. Wchnschr.*, No. 20, 1914.
- 1809 BOENNINGHAUS, G. Recognition of meningitis serosa ventricularis acuta. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 23, 1914.
- §1810 BRYANT, W. S. Treatment of purulent cerebrospinal meningitis. *Surg. Gynecol. and Obstetr.*, p. 240, Feb., 1915; *THE LARYNGOSCOPE*, p. 1009, Dec., 1914.
- §1811 COULET, G. Two cases of suppurative otitic meningitis with recovery. *Rev. hebdom. de Laryngol.*, p. 521, May 2, 1914; *THE LARYNGOSCOPE*, p. 693, July, 1914.
- †1812 DENCH, E. B. Treatment of accidental wounds of the dura during operations upon the mastoid process. *THE LARYNGOSCOPE*, p. 594, June, 1914.
- 1813 DENIS and VACHER, L. Jugular sinus complications of suppurative otitis. *Bull. d'oto-rhino-laryngol.*, p. 204, July, 1914.
- *1814 DENKER, A. Curability of otitic and traumatic meningitis. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 188, 1914.
- 1815 FINKELSTEIN. Origin of serous meningitides in tubercular children. *Berl. klin. Wchnschr.*, No. 25, p. 1164, 1914.

- 1816 GORDON, A. Some features of pneumococcus meningitis. *N. Y. Med. Jour.*, p. 859, Oct. 31, 1914.
- 1817 HINNEN, G. A. Unrecognized meningitis as complication of Bezold's mastoiditis. *Lancet-Clinic*, p. 393, April 4, 1914.
- 1818 JACQUES. Otitic meningitis. *Bull. d'oto-rhino-laryngol.*, p. 133, May, 1914.
- †1819 KOPETZKY, S. J. Operative treatment of meningitis. *THE LARYNGOSCOPE*, p. 733, Aug., 1914.
- 1820 LEHMANN, R. Abducent paralysis and meningitis secondary to acute otitis media. *Berl. klin. Wchnschr.*, Feb., 1914.
- 1821 REVERCHON. Cerebrospinal meningitis during a suppurative otitis media. *Bull. d'oto-rhino-laryngol.*, p. 129, May, 1914.
- 1822 REICHE, F. Meningitis as a complication of diphtheria. *Ztschr. f. Kinderh.*, Aug., 1914.
- 1823 SALMON, W. T. Otitic abscesses of brain. *N. Mex. Med Jour.*, Jan., 1914.
- 1824 SCHROEDER. Case of labyrinthogenous cerebrospinal meningitis with peculiar course, due to influenza bacilli. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 2-3, p. 27, 1914.
- 1825 STEEL, G. E. Meningitis without definite symptoms occurring late in mastoidectomy convalescence. *Ann. of Otol.*, p. 416, June, 1914.
- 1826 THOMSON, J. J. Report of a case of chronic meningitis possibly of otitic origin. *Ann. of Otol.*, p. 578, Sept., 1914.
- 1827 UCHERMANN, V. Meningitis secondary to ear disease. *Norsk Mag. f. Lægevidensk.*, p. 873, Aug., 1914.
- 1828 URBANTSCHITSCH, E. Suppurative metastatic pachymeningitis cured by operation. *Wr. klin. Wchnschr.*, p. 109, 1914.
- 1829 WRIGLEY, F. G. Case of temporo-sphenoidal abscess following chronic middle-ear suppuration. *Med. Chronic*, p. 10, Sept.-Oct., 1914.

VIII. NEW INSTRUMENTS.

Ear.

- 1830 BAGLIONI, S. New tonometer. *Arch. ital. di Otol.*, p. 271, Sept., 1914.
- 1831 DOLGER. New pneumatic speculum. *Muench med. Wchnschr.*, Jan. 13, 1914.
- †1832 DOWNEY, J. W. Apparatus designed for purpose of giving an approximately accurate quantitative hearing test. *THE LARYNGOSCOPE*, p. 820, Sept., 1914.
- §1833 MAURICE, A. Diathermo-kinesiphone. *Rev. hebdom. de Laryngol.*, p. 583, May 16, 1914; *THE LARYNGOSCOPE*, p. 772, Aug., 1914.
- 1834 MEIERHOF, E. L. Curette for the endo-tympanum to be used in treatment of chronic suppuration of the middle ear. *N. Y. Med. Jour.*, p. 819, Oct. 24, 1914.
- 1835 ROTHFELD, J. Instrument for demonstration of compensatory movements of eyes for which the ear is responsible. *Berl. klin. Wchnschr.*, Feb. 9, 1914.

- 1836 SALAGHI, S. Apparatus for study of the hearing capacity. *Gaz. degli Osped. e delle Clin.*, Dec. 6, 1914.
- 1837 STEFANINI, A. Alternating electromagnetic pendulum. (Alternatore pendolare elettromagnetico e sue applicazioni alla fisiologia e all'acumetria). *Arch. ital. di Otol.*, p. 438, Sept., 1914.
- 1838 UREANTSCHITSCH, V. Two new apparatus for measuring hearing. *Monatschr. f. Ohrenh.*, Heft 4, p. 561, 1914.

Nose and Naso-pharynx.

- 1839 BASS, C. C. Improved diphtheria culture-tube. *Jour. A. M. A.*, p. 39, Jan. 3, 1914.
- 1840 CROUCH, J. F. and CLAPP, C. A. Simple device for protection against infection in nose and throat examinations. *Jour. A. M. A.*, Feb. 7, 1914.
- §1841 HALL, E. P. A nasal splint. *Jour. A. M. A.*, p. 1636, May 23, 1914; *THE LARYNGOSCOPE*, p. 116, Feb., 1915.
- †1842 HEATH, A. C. New modification of an old adenotome. *THE LARYNGOSCOPE*, p. 155, Feb., 1914.
- 1843 KISCH, H. A. Instrument for the detection of slight degrees of nasal obstruction. *Brit. Med. Jour.*, p. 753, April 4, 1914.
- 1844 LEVINGER. Naso-pharyngeal mirror. ("Der eifersaugende Nasen-hoehleinspiegel" oder "ein Sieglescher Trichter fuer die Nase"). *Arch. f. Laryngol.*, Bd. 20, Heft 3, p. 491, 1914.
- 1845 LEWIN, L. New universal pocket-case for ear, nose and throat work. *Monatschr. f. Ohrenh.*, Heft 11-12, p. 1285, 1914.
- 1846 LLOYD, W. Posterior rhinoscope. *Glasgow Med. Jour.*, p. 58, Jan., 1914; and *Brit. Med. Jour.*, p. 1129, May 23, 1914.
- §1847 UNGER, M. New, double self-retaining nasal speculum. *Jour. A. M. A.*, p. 1557, May 16, 1914; *THE LARYNGOSCOPE*, p. 992, Dec., 1914.
- 1848 VON TOEVOELGYI, E. New nasal and laryngeal instruments. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 343, 1914.

Mouth and Pharynx.

- 1849 CAIRNS, R. U. Improved tonsil snare tip. *Wis. Med. Jour.*, Feb., 1914.
- 1850 COOK, F. J. Pharyngeal irrigator. *Cal. Eclec. Med. Jour.*, p. 11, Jan., 1914.
- §1851 FARR, R. E. Modification of Brophy mouth-gag. *Jour. A. M. A.*, p. 1557, May 16, 1914; *THE LARYNGOSCOPE*, p. 760, Aug., 1914.
- 1852 FRIEDBERG, S. A. Evolution of the tonsillotome. *Ann. of Otol.*, p. 293, June, 1914.
- †1853 GREEN, A. S. and L. D. Improved mouth-gag. *THE LARYNGOSCOPE*, p. 153, Feb., 1914.
- 1854 HEARNE, K. G. Modified tonsillectome. *Brit. Med. Jour.*, p. 718, Oct. 24, 1914.
- 1855 JENNINGS, J. E. New mouth-gag. *Wkly. Bull. St. Louis Med. Soc.*, p. 243, April 30, 1914.
- †1856 LA FORCE, B. D. Hemostat tonsillectome. *THE LARYNGOSCOPE*, p. 49, Jan., 1914.

- †1857 LA FORCE, B. D. La Force hemostat tonsillectome. *THE LARYNGOSCOPE*, p. 49, Jan., 1914.
- 1858 MAYER and MELTZER. Tonsillotome. *Brit. Med. Jour.*, p. 510, Sept. 19, 1914.
- 1859 REISCHIG, L. Radium holder for the oral cavity. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 225, 1914.
- †1860 SEARCY, H. B. New tonsillectome. *THE LARYNGOSCOPE*, p. 826, Sept., 1914.
- †1861 WATSON, A. W. New tonsil hemostat. *THE LARYNGOSCOPE*, p. 539, May, 1914.

Accessory Sinuses.

- 1862 FISCHER. New apparatus for irrigating nasal accessory cavities. *Deut. med. Wchnschr.*, Heft 2, p. 80, 1914.
- 1863 JONES, B. S. Instrument for maxillary antrum operation. *Brit. Med. Jour.*, p. 94, Jan. 10, 1914.
- 1864 SYDENHAM, F. Mouth-gag. *Brit. Med. and Surg. Jour.*, p. 1076, May 16, 1914.
- 1865 VON SARBO, A. Electric pocket lamp in diagnosis of frontal sinusitis. *Med. Klinik*, March 29, 1914.
- 1866 REAVES, W. P. Ethmoid knife—alligator ethmoid and turbinate forceps—an improved sinus punch with illustrations to show the steps in endo-nasal operation for pansinusitis. *Jour. A. M. A.*, p. 1324, April 25, 1914.

Larynx. Trachea. Bronchi. Esophagus.

- 1867 DUFOURMENTEL, L. Dilating and speaking cannula for subglottic laryngo-tracheal stenosis. *Arch. gen. de Med.*, July, 1914.
- 1868 GOODALE, E. W. Intubation instruments. *Practitioner*, Oct., 1914.
- 1869 GALLANT, A. E. Improved ether inhaler. *N. Y. Med. Jour.*, p. 861, Oct. 31, 1914.
- 1870 GREEN, N. W. Esophagoscope with direct outside illumination. *Ann. of Surg.*, Vol. 59, p. 195, 1914.
- 1871 HEGENER, J. New laryngostroboscope. All-transilluminating instrument for observation and instantaneous photographing of narrow cavities of body. *Vox*, p. 1, Feb. 1, 1914.
- 1872 HUPP, F. LE M. Tracheotomy; a new retractor and tube pilot for the emergency operation. *Surg. Gynecol. and Obstetr.*, p. 671, Nov., 1914.
- 1873 JANEWAY, H. H. Simple and complete forms of apparatus for intra-tracheal anesthesia. *Ann. of Surg.*, April, 1914.
- 1874 JURASZ, A. T. Inflatable bulb for occlusion of lower esophagus when there is danger of aspiration of vomit. *Muench. med. Wchnschr.*, Sept. 15, 1914.
- 1875 KILLIAN, G. Suspension laryngoscope and its practical use. *Brit. Med. Jour.*, p. 1181, May 30, 1914; and *Jour. of Laryngol.*, July-Aug., 1914.
- 1876 LEWISOHN, R. New esophagoscope. *Ann. of Otol.*, p. 78, March, 1914.
- †1877 LYNCH, R. C. Instrument for separating the vocal cords and for opening the mouth of the esophagus. *THE LARYNGOSCOPE*, p. 48, Jan., 1914.

- 1878 MARSCHIK, H. Bloodless and anesthetizing spray for upper air tract. (Anaemisierungs und Anaesthesierungs-spray fuer die oberen Luftwege). *Monatschr. f. Ohrenh.*, Heft 3, p. 428, 1914.
- *1879 PANCONCELLI-CALZIA, G. New laryngeal sound registering apparatus. (Der Kehltonschreiber Calzia-Schneider). *Ztschr. f. Laryngol.*, Bd. 7, Heft 3, p. 339, 1914.
- 1880 PRATT, J. P. Description of an apparatus for intra-tracheal insufflation. *Jour. A. M. A.*, p. 37, Jan. 3, 1914.
- †1881 UNGER, M. New direct-view, self-retaining laryngoscope. *THE LARYNGOSCOPE*, p. 995, Dec., 1914.

General.

- †1882 AMBERG, E. Two modified forceps. *THE LARYNGOSCOPE*, p. 543, May, 1914.
- 1883 BROWN, W. L., and BROWN, C. P. Improved face mask. *Jour. A. M. A.*, p. 1326, April 25, 1914.
- 1884 CHIABRERA, G. Professional acoumetric scale. *Arch. ital. di Otol.*, p. 192, June, 1914.
- 1885 GATSCHER, S. Apparatus for demonstrating and testing the zeigerversuchs. *Monatschr. f. Ohrenh.*, Heft 8, p. 1112, 1914.
- †1886 GIFFORD, H. Brain explorer and two modifications of Allport's speculum. *THE LARYNGOSCOPE*, p. 47, Jan., 1914.
- 1887 GUETTICH, A. New revolving chair. *Passows Beitr.*, p. 473, July 16, 1914.
- 1888 HAYES, W. M. Table attachment for doing surgery on face, throat and neck. *Jour. A. M. A.*, p. 483, Aug. 8, 1914.
- †1889 JACKSON, C. Esophagoscopic radium screens. *THE LARYNGOSCOPE*, p. 152, Feb., 1914.
- 1890 KAHN, A. Modification of the Crile cannula. *Med. Rec.*, p. 511, Sept. 19, 1914.
- 1891 LAUTENSCHLAGER, E. New face-mask as a protection against infection in rhino-laryngology. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 488, 1914.
- 1892 LICHTENELET, J. W. T. Improved stethoscope. *Nederl. Tijdschr. v. Geneesk.*, Aug. 1, 1914.
- 1893 POIROT, J. Hermann's phonographic transcriber. *Vox*, p. 99, April 19, 1914.
- †1894 SCHOONMAKER, P. Universal syringe for ear, nose and throat. *THE LARYNGOSCOPE*, p. 540, May, 1914.
- 1895 SINGER, J. J. New simple stethoscope. *Jour. A. M. A.*, p. 482, Aug. 8, 1914.
- 1896 SKILLERN, R. H. Method of suspension (Killian); demonstration of the latest form of the apparatus. *Jour. A. M. A.*, p. 1923, Nov. 28, 1914.
- 1897 STIMSON, C. M. Magnetized needle holder. *N. Y. Med. Jour.*, p. 837, April 25, 1914.
- 1898 TANNER, H. A small spray. *Brit. Med. Jour.*, p. 869, April 18, 1914.
- 1899 UNGER, M. New combined head-mirror and face protector. *Med. Rec.*, p. 971, Dec. 5, 1914.
- †1900 YANKAUER, S. Electrode for fulgurating the larynx. *THE LARYNGOSCOPE*, p. 993, Dec., 1914.

IX. MISCELLANEOUS.

- 1901 AIGROT, G. Resection of auriculo-temporal nerve to inhibit parotid secretion. *Lyon Chir.*, March, 1914.
- 1902 ALEXANDER, G. J. Post-graduate work in Vienna. *Jour. of Ophth. Otol. and Laryngol.*, p. 209, May, 1914.
- 1903 ARNOLD, M. Advantages of oral day schools. *Volta Rev.*, p. 354, June, 1914.
- 1904 BABCOCK, E. J. and J. T. Plea for the play co-efficient in teaching conversation to deaf children. *Volta Rev.*, p. 613, Sept., 1914.
- 1905 BARNES, F. G. Development of language. *Volta Rev.*, p. 177, April, 1914.
- †1906 BARNHILL, J. F. Environmental surgery of oto-laryngology. *THE LARYNGOSCOPE*, p. 948, Nov., 1914.
- 1907 BARTON, R. S. and COLEMAN, H. A. Case of swallowed open safety-pin. *Jour. A. M. A.*, p. 614, Feb. 21, 1914.
- 1908 BECK, O. Bone conduction in syphilis. *Ann. des Mal de l'Oreille*, No. 3, p. 217, 1914.
- 1909 BEHRENS, E. Effect of hypophysis extraction on human blood-pressure and on growth of young animals. *Deut. Arch. f. klin. Med.*, Vol. 113, Nos. 3-4, 1914.
- 1910 BEMELMANS, E. Significance and combatting of streptococci and their products of metabolism in the various infectious diseases in the human and in animals. *Ned. Tijdschr. v. Geneesk.*, Jan. 1, 1914.
- 1911 BENEDICT, F. G. and TALBOT, F. B. Respiratory exchange of infants. *Am. Jour. Dis. of Children*, p. 1, July, 1914.
- 1912 BEST, H. Constitutional provisions for schools for the deaf. *Am. Ann. of Deaf*, p. 260, May, 1914.
- 1913 BICHELOU, H. and GASSIN, A. Sub-hyoid phlegmon. (Phlegmon ligneux sus-hyoïdien mortel; autopsie; propagation de la suppuration au médiastin antérieur.) *Rev. hebdom. de Laryngol.* p. 241, Feb. 28, 1914.
- 1914 BELANCIONI, G. Unedited letters of Domenico Cotugno. *Arch. ital. di Otol.*, No. 6, p. 508, 1914.
- 1915 BILLINGS, F. Focal infection, its broader application in the etiology of general disease. *Jour. A. M. A.*, p. 899, Sept. 12, 1914.
- 1916 BINNETT, A. Treatment of gangrenous process in lung by intratracheal injections of medicated oil. *Nederl. Tijdschr. v. Geneesk.*, Vol. 2, No. 2, 1914.
- 1917 BIRCK, V. S. Benefit of military training to the deaf. *Am. Ann. of Deaf*, p. 160, March, 1914.
- 1918 BLEDSOE, E. P. Defective children. *Arkans. Med. Soc. Jour.*, April, 1914.
- 1919 BLUM, S. Iodin specific germicide in respiratory affections. *Cal. State Jour. of Med.*, May, 1914.
- 1920 BODE, P. Artificial respiration in case of central paralysis of respiration. *St. Petersburg med. Ztschr.*, April 14, 1914.
- 1921 BODENHEIMER, J. M. Purpura hemorrhagica treated with horse serum. *N. Y. Med. Jour.*, p. 774, Oct. 17, 1914.
- 1922 BONAIN. The local anesthesia called "Bonain fluid." *Rev. hebdom. de Laryngol.* p. 646, May 30, 1914.

- 1923 BOOTHBY, W. M. and PEABODY, F. W. Comparison of methods of obtaining alveolar air. *Arch. of Intern. Med.*, March, 1914.
- 1924 BOURGUET, and DANSAN. Trepanation for tumor of the hypophysis. *Arch. intern. de Laryngol.* p. 329, March-April, 1914.
- 1925 BOWLES, W. A. Virginia school for the deaf the scene of the coming convention of American instructors of the deaf. *Volta Rev.*, p. 103, March, 1914.
- 1926 BRACKMANN, A. Inhalation of oxygen in disease of the respiratory organs. *Deut. med. Wchnschr.*, Jan. 29, 1914.
- 1927 BROECKAERT, J. Treatment of respiratory conditions by warm air. (Traitement des affections des voies respiratoires par la douche d'air chaud charge ou non de principes actifs.) *Presse Oto-Laryngol. Belge*, No. 2, p. 74, 1914.
- 1928 BRUNETTI, F. Alcoholization and neurotomy of internal branch of the superior laryngeal nerve. *Arch. intern. de Laryngol.*, p. 395, March-April, 1914.
- 1929 BRUNI, A. C. Comparative anatomy of the development of the pituitary body. *Intern. Monatschr. f. Anat. u. Physiol.*, Vol. 30, Nos. 4-6, 1914.
- 1930 BRYANT, W. S. Conservation of functions of ear, nose and throat. *N. Y. Med. Jour.*, p. 615, March 28, 1914.
- 1931 BUELL, E. M. Pictures for language teaching. *Volta Rev.*, p. 691, Oct., 1914.
- 1932 BURR, C. W. Relation of aphasia to mental disease from the medico-legal point of view. *N. Y. Med. Jour.*, May, 1914.
- 1933 BUYS, E. Method and direction of oto-rhino-laryngology. *Presse oto-laryngol. Belge.*, No. 5, p. 221, 1914.
- §1934 CALDERA, C. Modern system of inhalation therapy. *Boll. delle Mal. dell'Orecchio*, p. 121, June, 1914; *THE LARYNGOSCOPE* p. 144, March, 1915.
- 1935 CAMP, C. D. Treatment of trifacial neuralgia by the injection of alcohol into the Gasserian ganglion. *Med. Rec.*, p. 1117, June 20, 1914.
- 1936 CAMPBELL, H. Headache, its causes and treatment. *Brit. Med. Jour.*, p. 578, Oct. 3, 1914.
- †1937 CARPENTER, E. W. Death of an infant caused by fragment of peanut in left lung. *THE LARYNGOSCOPE*, p. 190, March, 1914.
- 1938 CARREL, A. On the technic of intra-thoracic operations. *Surg. Gynecol. and Obstetr.*, p. 226, Aug., 1914.
- 1939 CHAMBERLIN, W. Alcohol-carbolic injection of sphenopalatine (Meckel's) ganglion. *Interstate Med. Jour.*, p. 728, June, 1914.
- 1940 CHAMBERS, T. R. Countercoup fracture of the skull. *Ann. of Otol.*, p. 164, March, 1914.
- 1941 CHAPPELL, W. F. and BROWN, A. Respiratory infections in infant's wards. *Am. Jour. Dis. of Children*, May, 1914.
- 1942 CHEINISSE, L. Camphor in respiratory affections. *Semaine Med.*, May 13, 1914.
- 1943 CITELLI. Therapeutic efficiency of pituitary extract in psychic syndrome. (Sull'efficacia terapeutica dell'estratto d'ipofisi nella sindrome psichica da me descritta.) *Boll. delle Mal. dell'Orecchio*, p. 169, Aug., 1914.

- 1944 CLARK, H. C. Probable relation between enlargement of thymus body, lymphatism and shock. *Am. Jour. Dis. of Children*, March, 1914.
- 1945 CLAUDE, H., GERY, L. and PARAK, R. Epithelioma of the thymus in a case of myasthenia. *Ann. de Med.*, p. 593, June, 1914.
- 1946 COATES, G. M. Relations of nose, throat and mouth conditions to trifacial neuralgia. *Pa. Med. Jour.*, Aug., 1914.
- 1947 COLARDEAU, E. Localization of foreign bodies. *Presse Med.*, Nov. 19, 1914.
- 1948 COLESCHI, L. Roentgenography of the sella turcica in relation to disease of the pituitary body. *Policlin. Med. Sec.*, Nos. 10-11, 1914.
- 1949 COLLIE, J. Malingering. *Glasgow Med. Jour.*, p. 241, April, 1914.
- 1950 COMBY, J. Radiography of diseased bronchial glands. *Arch. de Med. des Enfants*, Nov.-Dec., 1914.
- *1951 COMPAIRED, C. Case of local tuberculosis of the pituitary. Recovery. *Rev. heb. de Laryngol.*, p. 487, April 25, 1914; *THE LARYNGOSCOPE*, p. 507, May, 1914.
- 1952 COOPER, J. T. Fracture of left temporal bone. *Mich. State Med. Soc. Jour.*, Aug., 1914.
- 1953 COURTADE, A. New researches on expiration. *Arch. intern. de Laryngologie*, p. 132, Jan.-Feb., 1914.
- †1954 CRANE, C. G. Asepsis in office practice. *THE LARYNGOSCOPE*, p. 606, June, 1914.
- 1955 CSEPAL. Diseases of the hypophysis and the functional diagnosis of polyglandular diseases. *Deut. Arch. f. klin. Med.*, Vol. 116, Nos. 5-6, 1914.
- 1956 CUSHING, H. Surgical experiences with pituitary disorders. *Jour. A. M. A.*, p. 1515, Oct. 31, 1914.
- 1957 DAVIDSON, S. G. Mental development through language study. *Am. Ann. of Deaf*, p. 113, March, 1914.
- 1958 DAVIS, E. D. Importance of very thorough examination in cases of foreign body alleged to have been swallowed or inhaled. *Lancet*, Aug. 22, 1914.
- 1959 DE CAZENEUVE. Estimation of partial permanent disablement after occupational accidents of an oto-rhino-laryngological nature. (Essai d'évaluation des incapacités permanentes partielles chez les accidentés du travail en oto-rhino-laryngologie.) *Rev. heb. de Laryngol.*, p. 129, Jan. 31, 1914.
- 1960 DE FORD, W. H. Continuous analgesia and anesthesia with somnoform. The technic of administration. *Am. Jour. of Surg.*, p. 34, Jan., 1915.
- 1961 DE QUERVAIN. Technic of hypophysis operation. *Corresp. Bl. f. Schweiz. Aerzte*, No. 3, 1914.
- 1962 DELAVAN, D. B. Employment of skiagraphy in the diagnosis of enlargement of the thymus gland. *N. Y. Med. Jour.*, p. 665, Oct. 17, 1914.
- 1963 DELAVAN, D. B. Laryngology in New York. *Med. Rec.*, p. 2, Jan. 3, 1914.
- 1964 DELSAUX, V. Treatment of oto-rhino-laryngopathies during infectious diseases and eruptive fevers. *Bull. d'oto-rhino-laryngol.* p. 65, March, 1914.

- 1965 DOUGAL, D. and BRIDE, T. M. Case of cyclopia. *Brit. Med. Jour.*, p. 13, July 4, 1914.
- 1966 DUBITZKY, F. Character of tempo. (Das Wesen des Taktes.) *Stimme*, p. 239, May, 1913.
- 1967 DUNCAN, C. H. Auto-immunization in respiratory infections. *Med. Rec.*, p. 408, Sept. 5, 1914.
- 1968 DUNN, A. D. Pituitary disease, a clinical study of three cases. *Am. Jour. Med. Sci.*, p. 214, Aug., 1914.
- 1969 EDMONDES, J. P. Differential diagnosis of diseases of eye and ear most commonly met with by general practitioner. *Ky. Med. Jour.*, Jan. 1, 1914.
- 1970 EMERSON, H. Status lymphaticus in adults; its clinical diagnosis and importance. *Arch. of Int. Med.*, Jan., 1914.
- 1971 EXCHAQUET. Dyspnea due to hypertrophy of the thymus. *Rev. med. de la Suisse rom.*, No. 2, 1914.
- 1972 FALCONER, A. W. Further note on a case of dyspituitarism. *Edin. Med. Jour.*, p. 246, Sept., 1914.
- *1973 FEARNSIDES, E. G. Diseases of pituitary gland and their effect on shape of sella turcica. *Lancet*, July 4, 1914.
- 1974 FINCH, L. H. Tumor of hypophysis cerebri. *N. Y. State Jour. of Med.*, March, 1914.
- 1975 FINDER. Laryngology at the International Medical Congresses. *Intern. Contribl. f. Laryngol.*, p. 287, July, 1914.
- 1976 FINDER, G. and RABINOWITSCH, L. Impeded breathing through the nose does not seem to predispose guinea-pigs to tuberculosis. *Berl. klin. Wchnschr.*, Nov. 16, 1914.
- 1977 FINGERHUT, L. and WINTZ, H. Determination of coagulating property of the blood. *Muench. med. Wchnschr.*, Feb. 17, 1914.
- 1978 FISCHER-GALATI, T. New relations between nose and eye. *Monatschr. f. Ohrenh.*, Heft 1, p. 136, 1914.
- 1979 FISCHL, R. Experimental study of the effect of thymus extracts. *Jahrb. f. Kinderh.*, May, 1914.
- 1980 FISCHL, R. Inconstant effect of thymus extracts. *Monatschr. f. Kinderh.*, Vol. 12, 1914.
- 1981 FISHER, J. C. Inheritance with reference to eye and ear. *Ill. Med. Jour.*, Nov., 1914.
- 1982 FISHER, W. C. (1) Section on stomatology, its needs, duties and opportunities. (2) The field of stomatology. *Jour. A. M. A.*, p. 2104, Dec. 12, 1914.
- 1983 FRANCIS, C. F. D. Biological treatment for cancer. *Med. Rec.*, p. 848, May 9, 1914.
- 1984 FREUDENTHAL, W. New method of general anesthesia. *Arch. f. Laryngol.*, Bd. 28, Heft 3, p. 425, 1914.
- 1985 FRIEDRICH, E. P. Duties of otologists in war. *Deut. med. Wchnschr.*, No. 44, p. 1912, 1914.
- 1986 FROELICH. Ganglionic tumors of the neck. *Rev. med. de l'Est* Feb. 15, 1914.
- 1987 FUEHNER, H. Essential elements of the hypophysis. *Berl. klin. Wchnschr.*, Feb. 9, 1914.
- 1988 GATSCHER. Surgery in the Vienna ear clinic from 1908 to 1912. *Med. Klinik*, No. 9, 1914.

- 1989 GEARHART, A. P. Plea for early intubation by general practitioner. *Okla. State Med. Assn. Jour.*, Nov., 1914.
- 1990 GIANNONE, A. Plasma cells in the pathologic processes in otorhino-laryngology. *Arch. intern. de Laryngol.*, p. 126, Jan.-Feb., 1914.
- 1991 GJESSING, E. Operative treatment of diffuse lipomas of the neck. *Hospitalstidende*, Oct. 7, 1914.
- †1992 GLEASON, E. B. Case of purpura hemorrhagica. *THE LARYNGOSCOPE*, p. 183, March, 1914.
- 1993 GOERKE, M. Significance of aural diseases in insurance. *Intern. Ztribl. f. Ohrenh.*, Bd. 12, Heft 2, p. 41, 1914.
- 1994 GOERKE, M. Significance of laryngeal affections in insurance. *Intern. Ztribl. f. Ohrenh.*, Bd. 12, Heft 7, p. 273, 1914.
- 1995 GOEPPERT, F. Defective respiration in children. *Berl. klin. Wchnschr.*, p. 1397, July 27, 1914.
- 1996 GOETSCH, E. Pituitary body. *Qrly. Jour. of Med.*, Jan., 1914.
- †1997 GOLDSTEIN, M. A. Case of purpura hemorrhagica. *THE LARYNGOSCOPE*, p. 1, Jan., 1914.
- 1998 GOLZ, W. Significance of symptoms from tuberculous bronchial lymph-nodes. *Med. Klinik*, Feb. 1, 1914.
- 1999 GORDON, M. B. Organo-therapy in children. *Am. Medicine*, p. 234, April, 1914.
- 2000 GORDON, N. R. Significance of subnormal temperature and its relation to insomnia and loss of hearing. *Jour. Ophth. and Oto-Laryngol.*, p. 114, April, 1914.
- 2001 GRADENIGO, G. Dry pulverization by the Stefanini-Gradenigo method. *Arch. intern. de Laryngol.*, p. 671, May-June, 1914.
- 2002 GREGGIO, E. Cervical cysts. An anatomical study. *Arch. f. Laryngol.*, Bd. 28, Heft 2, p. 324, 1914.
- 2003 GRIFFITH, D. M. Dysmenorrhea cured by treating nose. *Ky. Med. Jour.*, Sept. 15, 1914.
- 2004 GRIFFITH, F. G. Tuberculosis of the bronchial lymph glands. *Australasian Med. Gaz.*, p. 433, May 16, 1914.
- 2005 GRINSTEAD, W. F. "Lest we forget" our lymphatics. *Ill. Med. Jour.*, Feb., 1914.
- 2006 GROBER, J. A. Treatment of dyspnea. *Deut. med. Wchnschr.*, p. 209, Jan. 29, 1914.
- 2007 GRUENWALD, L. Limen vestibuli as respiratory obstacle. *Monatschr. f. Ohrenh.*, Heft 2, p. 178, 1914.
- 2008 HAGEMANN, J. A. Rhinological aspect of some mental disturbances. *Med. Rec.*, p. 250, Aug. 8, 1914.
- 2009 HAGEMANN, J. A. Upper respiratory mucous membranes as emunctories. *Med. Rec.*, p. 296, Feb. 14, 1914.
- 2010 HANSEN, A. Lower the age of admission. *Volta Rev.*, p. 621, Sept., 1914.
- 2011 HANSEN, A. Northernmost school for the deaf in the world. *Volta Rev.*, p. 27, Jan., 1914.
- 2012 HARPER, F. S. Bronchial spirochetosis. *Jour. Trop. Med. and Hyg.*, July 1, 1914.
- †2013 HARRIS, T. J. Skull of Aborigines. Specimen of temporal bone. *THE LARYNGOSCOPE*, p. 45, Jan., 1914.

- 2014 HARRIS, W. Some experiences with alcohol injection in trigeminal and other neuralgias. *Jour. A. M. A.*, p. 1725, Nov. 14, 1914.
- 2015 HART, C. Thymus and rachitis. *Berl. klin. Wchnschr.*, July 13, 1914.
- 2016 HEED, C. R. and PRICE, G. E. Binasal hemianopsia occurring in the course of tabetic optic atrophy. *Jour. A. M. A.*, p. 771, March 7, 1914.
- 2017 HEITGER, J. D. Local manifestations in ear, nose and throat associated with disease of nervous system. *Ind. State Med. Assn. Jour.*, p. 357, Aug., 1914.
- 2018 HEITGER, J. D. Practical considerations of modern ideas in otolaryngology. *Jour. Ind. State Med. Assn.*, Dec., 1914.
- 2019 HEKMA, E. Fibrin as a factor in the coagulation of the blood. *Nederl. Tijdschr. v. Geneesk.*, Vol. 63, No. 12, 1914.
- 2020 HENDERSON, Y. Respiratory experiments on man. *Jour. A. M. A.*, p. 1133, April 11, 1914.
- 2021 HILL, E. Case of tumor of hypophysis with operation. *Ill. Med. Jour.*, Aug., 1914.
- 2022 HIRSCH. Operative treatment of hypophyseal tumors. *Arch. intern. de Laryngol.*, p. 20, Jan.-Feb., 1914.
- 2023 HIRSCH, C. Aneurysm of the internal carotid. *Monatschr. f. Ohrenh.*, Heft 6, p. 780, 1914.
- 2024 HITCHENS, A. P. Current developments and problems in vaccine therapy. *Interstate Med. Jour.*, May, 1914.
- 2025 HOFBAUER. Symptomatology of cough. *Wt. klin. Wchnschr.*, No. 26, 1914.
- 2026 HOFFMAN, R. Abderhalden method. *Monatschr. f. Ohrenh.*, Heft 8, p. 1057, 1914.
- 2027 HOFFMANN, R. Plasmacellular affections of the upper air tract. *Ztschr. f. Ohrenh.*, Bd. 71, Heft 3-4, p. 208, 1914.
- 2028 HOFFMANN, R. Remarks on the Abderhalden method. *Monatschr. f. Ohrenh.*, Heft 8, p. 1057, 1914.
- 2029 HOUSSAY, B. A. Hypophysis extract in hemoptysis. *Sem. Med.*, April 2, 1914.
- †2030 HUBBARD, T. Air we breathe—a study of temperature, humidity and dust contents. *THE LARYNGOSCOPE*, p. 750, Aug., 1914; and *Me. Med. Assn. Jour.*, p. 57, Sept., 1914.
- 2031 HUTCHINSON, A. C. Sympathy and thoughtfulness for the deaf. *Volta Rev.*, p. 250, May, 1914.
- 2032 HUTCHINSON, J. The indicated remedy. *Jour. Ophth. Otol. and Laryngol.*, p. 137, March, 1914.
- †2033 HURLEY, J. J. Extracts and thoughts from a sinus classic. *THE LARYNGOSCOPE*, p. 909, Nov., 1914.
- †2034 HURD, L. M. Hyoscin and morphin as a preliminary to local anesthetics. *THE LARYNGOSCOPE*, p. 951, Nov., 1914.
- †2035 IDE, C. E. Pathological conditions in the ear, nose or throat reflex to disease of the teeth, jaw or parotid gland. *THE LARYNGOSCOPE*, p. 97, Feb., 1914.
- 2036 JACKSON, D. E. Action of certain drugs on bronchioles. *Jour. Pharmacol. and Experim. Therap.*, May, 1914.

- 2037 JACKSON, D. E. Pharmacologic action of certain substances on bronchioles. *Jour. Pharmacol. and Experim. Therap.*, May, 1914.
- 2038 JASTRAM, M. Aneurysm of the external carotid artery simulating tumor in tonsil region. *Beitr. z. klin. Chir.*, Vol. 93, No. 2, 1914.
- 2039 JESIONEK. Light-ray treatment of lupus. *Deut. med. Wchnschr.*, No. 18, p. 895, 1914.
- 2040 JOHNSON, W. Pathologic investigation of four cases of pituitary tumor. *Lancet*, July 4, 1914.
- 2041 JOHNSTON, G. C. Place of the roentgen ray in therapeutics. *Jour. A. M. A.*, p. 747, Aug. 29, 1914.
- 2042 JONES, R. M. Coughs. *Jour. of Ophth. Otol. and Laryngol.*, p. 296, July, 1914.
- 2043 KANAVEL, A. B. Osteo-plastic closure of the trifacial foramina. *Jour. A. M. A.*, p. 1245, Oct. 10, 1914.
- 2044 KASSEL, K. History of rhinology to 18th century. *Curt Kabitzsch, Wuerzburg*, 1914.
- 2045 KASSEL, K. Rhinology of the present day. *Ztschr. f. Laryngol.*, Bd. 6, Heft 6, p. 857, 1914.
- 2046 KAUPF, W. Roentgen treatment not advisable for hypertrophy of the thymus. *Monatschr. f. Kinderh.*, Vol. 13, No. 2, p. 69, 1914.
- 2047 KELLY, D. Abscess in the bronchial glands. Operation. Recovery. *Australasian Med. Gaz.*, p. 524, June 13, 1914.
- 2048 KER, C. B. Isolation and quarantine periods in the more common infectious diseases. *Edin. Med. Jour.*, p. 6, Jan., 1914.
- §2049 KING, G. L. The necessity of more careful study of renal function prior to operation. *N. O. Med. and Surg. Jour.*, Dec., 1914; *THE LARYNGOSCOPE*, p. 286, May, 1915.
- 2050 KLOTS, P. S. Successful removal of tumor of pituitary gland. *Nederl. Tijdschr. v. Geneesk.*, July 25, 1914.
- 2051 KORLANCK. Kind of cancers best suited for treatment with radio-active substances. *Berl. klin. Wchnschr.*, April 27, 1914.
- 2052 KRAMPITZ. Significance of radio-active substances for oto-rhino-laryngology. *Intern. Zentrbl. f. Ohrenh.*, Bd. 12, Heft 4-5, 1914.
- 2053 KYLE, D. B. Local lesions of the mucous membrane of the upper respiratory tract, due to systemic condition. *Trans. Am. Laryngol. Ass'n.*, p. 193, 1914.
- 2054 LABARRE, E. Visit to some of the principal foreign oto-laryngological clinics. *Presse Oto-Laryngol. Belge*, No. 1, p. 27, 1914.
- 2055 LAZAROW. Disturbances of the innervation of the facial nerve by tumors of the post-cranial fossa. (Ueber eine Stoerung der Innervation des Nervus facialis bei Geschwuelsten der hinteren Schaedelgrube). *Neurol. Zentrbl.*, No. 1, p. 13, 1914.
- 2056 LEALE, G. Therapeutic use of alumnol in oto-laryngology. *Boll. delle Md. dell'Orecchio*, p. 145, July, 1914.
- 2057 LEE, R. I., and VINCENT, B. Coagulation of normal human blood. *Arch. of Intern. Med.*, March, 1914.
- 2058 LENSMAAN, A. P. Inter-relation between systemic diseases and diseases of eye, ear, nose and throat. *N. W. Med.*, March, 1914; and *Jour. Ophth. Oto-Laryngol.*, p. 179, June, 1914.
- 2059 LEECH, O. Contribution on the thymus. *Med. Rec.*, p. 648, April 11, 1914.

- 2060 LINDT, W., and NAGER, R. Traumatic ear disease and workmen's compensation. *Corresp.-Bl. f. Schweizer Aerzte*, p. 481, April 18, 1914.
 - 2061 LUBMAN, M. What the general practitioner should know in the specialty of ear, nose and throat. *Med. Rev. of Rev.*, p. 534, Oct., 1914.
 - 2062 LUNGHELLI, B. Tumor in hypophysis region. *Tumori*, Feb., 1914.
 - 2063 LUTZ, S. H. Suggestions in ear, nose and throat cases. *Med. Times*, Feb., 1914.
 - 2064 MACCONE, L. Necessity of oto-rhino-laryngological knowledge for the proper interpretation of pathogenesis and for the diagnosis of the common diseases of infancy. *Prat. oto-rino-laringoiatrica*, No. 2, p. 49, 1914.
 - 2065 MACINTYRE, J. Treatment of inoperable cases by means of X-rays. *Jour. of Laryngol.*, p. 496, Oct., 1914.
 - 2066 MACKENZIE, J. Aphthous ulceration of the upper air tract in pulmonary tuberculosis. *Arch. intern. de Laryngol.*, p. 404, March-April, 1914.
 - 2067 MANN, R. H. T. Examination of eyes and ears of school children. *Arkans. State Med. Soc. Jour.*, March, 1914.
 - 2068 MAULDIN, L. O. Some accessory facts to eye, ear nose and throat work of interest to all physicians. *S. C. Med. Ass'n. Jour.*, Jan., 1914.
 - 2069 MASSALONGO, R., and PIAZZA, P. Post-infectious pituitary syndrome. *Rif. Med.*, p. 1065, Sept. 26, 1914.
 - 2070 MEEROWITSCH. Lysinol in rhino-laryngology. *Fortschr. d. Med.*, No. 21, 1914.
 - 2071 McELROY, J. B. Hypo-pituitarism. *Miss. Med. Monthly*, p. 1, May, 1914.
 - 2072 McKENTY, F. E. Tumors of the neck. *Surg. Gynecol. and Obstetr.*, p. 141, Aug., 1914.
 - 2073 MILLER, A. H. Nitrous oxid-oxygen anesthesia. *Jour. A. M. A.*, p. 1474, Oct. 24, 1914.
 - 2074 MINOR, C. L. Bacterins in treatment of ear, nose and throat affections. *O. State Med. Jour.*, July, 1914.
 - 2075 MITHOEFFER, W. Chronic discharging ears and life insurance. *Lancet-Clinic*, Oct. 3, 1914.
 - 2076 M'NEAL, C. Association of acutely fatal illness in infants and children with abnormal constitution (Status lymphaticus). *Edin. Med. Jour.*, p. 25, Jan., 1914.
 - 2077 MONTESSORI, M. Education of the senses. *Volta Rev.*, p. 473, July, 1914.
 - 2078 MORGENSTERN, L. I. Deafness and quackery. *Am. Ann. of Deaf*, p. 165, March, 1914.
 - §2079 MOSHER, H. P. Anatomy, anomalies, instruments and technic. *Trans. Am. L. R. and O. Soc.*, June 19-20, 1914; *THE LARYNGOSCOPE*, p. 999, Dec., 1914.
- (Numbers 2080 to 2089 omitted through error in numbering.)
- 2090 MUCK, O. Neavus vascularis of the upper air tract. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 257, 1914.

- 2091 MUNGER, C. E. Angio-neurotic edema. *Med. Rec.*, p. 1029, June 6, 1914.
- 2092 NEUBORN, R. Operation for polyps of the cranial base (fibroma and fibrosarcoma). *Ztschr. f. Laryngol.*, Bd. 6, H. 6, 1914.
- 2093 NEUMANN, H. Two cases of hypophysis tumor operated. *Wr. klin. Wchnschr.*, No. 25, 1914.
- 2094 ONODI, L. Additional data on rhinogenous and otogenous lesions of the oculo-motor, trochlear, trigemimus and abducens nerves. *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 259, 1914; and *Jour. of Laryngol.*, June-July, 1914.
- 2095 PAGE, J. R. Case of probable injury to the jugular bulb following myringotomy in an infant 10 months old. *Ann. of Otol.*, p. 161, March, 1914.
- 2096 PAGET, O. Nose as safeguard against disease. *Australasian Med. Gaz.*, p. 333, April 18, 1914.
- 2097 PAGET, O. F. Pulmonary tuberculosis and other disorders or the the fruits of the incapable nose. *Australasian Med. Gaz.*, p. 147, Feb. 21, 1914.
- 2098 PARKER, G. Case of woody phlegmon of the neck (phlegmon ligneux). *Brit. Med. Jour.*, p. 24, Jan. 3, 1914.
- 2099 PAUNZ, M. Rupture of tuberculous tracheo-bronchial glands into the air passages in childhood. *Jahrb. f. Kinderh.*, Oct., 1914.
- 2100 PERIER, E. Necessity for always examining the throat. *Ann. de Med. et Chir. infant.*, p. 321, May 15, 1914.
- 2101 PERKINS, C. E. Report of cases of aural infection with streptococcus capsulatus. *Ann. of Otol.*, p. 784, Dec., 1914.
- 2102 PIERCE, J. A. Economic efficiency of the deaf. *Volta Rev.*, p. 260, May, 1914.
- 2103 PIERCE, J. A. Privilege of being deaf. *Volta Rev.*, p. 351, June, 1914.
- 2104 PHILLIPS, W. H. Case of pituitary disease. *Jour. Ophth. Otol. and Laryngol.*, p. 175, April, 1914.
- 2105 PLETNEFF, D. D. Phono-auscultation. *Russky Vrach*, p. 705, May 30, 1914.
- 2106 PLICQUE, A. F. Antiseptic measures in the treatment of respiratory disorders. *Bull. Med.*, Feb. 7, 1914.
- 2107 PLUMMER, W. A., and NEW, G. B. Tumor of middle cranial fossa involving Gasserian ganglion. *Jour. A. M. A.*, p. 1082, April 4, 1914.
- 2108 POLLAK, E. Amyloid tumor of the air passages and oropharyngeal cavity. *Ztschr. f. Laryngol.*, Bd. 7, Heft 1, p. 25, 1914.
- 2109 POTTER, T. Contact points of ophthalmology and rhinology with general medicine. *Jour. Ind. State Med. Ass'n.*, June, 1914.
- 2110 POZNANSKI, L. Salvarsan and neosalvarsan in rhino-laryngology. *Intern. Zntribl. f. Ohrenh.*, Bd. 12, Heft 6, p. 229, 1914.
- 2111 PYBAS, A. H. New departure in first-year work whereby speech becomes the most interesting thing in the world. *Volta Rev.*, p. 109, March, 1914.
- 2112 RABENS, I., and LIFSCHITZ, J. Secretory innervation of hypophysis. *Am. Jour. of Physiol.*, Dec., 1914.

- 2113 RAMADIER, J. Aerothermo-therapy in oto-rhino-laryngology. *Bull. d'oto-rhino-laryngol.*, p. 113, March, 1914.
- 2114 RODUR and BOISSERIE-LACROIX. Congenital facial hemi-atrophy with malformation of ear and hypoplasia of sternocleido-mastoid muscle. *Jour. de Med. de Bordeaux*, Jan. 4, 1914.
- 2115 ROEDELIOUS, E. Case of atrophy of optic nerve after pertussis; seventh on record. *Arch. f. Kinderh.*, Vol. 62, Nos. 3-4, p. 161, 1914.
- 2116 ROHMER, P. Epinephrin plus hypophysis extract effectual in tiding sick children through acute infectious heart weakness. *Muench. med. Wchnschr.*, June 16, 1914.
- 2117 ROSE, F. J. Pathology of the hypophysis. *Clarkov Med. Jour.*, Vol. 17, p. 249, 1914.
- 2118 ROSENOW, E. C. New bacteriology of various infections as determined by special methods. *Jour. A. M. A.*, p. 903, Sept. 12, 1914.
- 2119 ROTH, P. B. Treatment of torticollis. (Congenital non-spasmodic wry-neck). *Brit. Med. Jour.*, p. 667, Oct. 17, 1914.
- 2120 ROWLAND, W. D. Vapor anesthesia in surgery of the head and neck. *Jour. Ophth. Otol. and Laryngol.*, p. 248, June, 1914.
- 2121 RUPRECHT, M. Technic for permucous alypin anesthesia. *Ztschr. f. Laryngol.*, Bd. 7, Heft 2, p. 197, 1914.
- §2122 RYERSON, G. S. Radium in epithelioma and allied affections. *Can. Jour. of Med. and Surg.*, May, 1914; *THE LARYNGOSCOPE*, p. 292, May, 1915.
- §2123 SCHEPPEGRELL, W. Colds, their cause, prevention and cure. *Pan. Am. Surg. and Med. Jour.*, July, 1914; *THE LARYNGOSCOPE*, p. 64, Feb., 1915.
- 2124 SCHLEIDT, J. Hypophysis in feminized males and in masculinized females. *Zntribl. f. Physiol.*, Vol. 27, p. 1170, 1914.
- 2125 SCHOENHOLZER, H. Casuistic of hypophyseal tumors. *Wr. klin. Wchnschr.*, No. 9, 1914.
- 2126 SCHROEDER, H. Jean M. G. Itard. *Monatschr. f. Ohrenh.*, Heft 3, p. 358, 1914.
- 2127 SEWALL, H. Relation of brain and of olfactory apparatus to process of immunity. *Arch. of Intern. Med.*, June, 1914.
- §2128 SHEPPARD, J. E. Clinical significance of bacteremia. *Ann. of Otol.*, p. 864, Dec., 1914; *THE LARYNGOSCOPE*, p. 1006, Dec., 1914.
- 2129 SHIMIZU, I. S. Function of the thymus. *Mittcil. a. d. med. Fak. d. K. Univ. Tokyo.*, Vol. 11, No. 1, 1914.
- §2130 SHLENKER, M. A., and FICKLIN, A. Vicarious menstruation. *New Orleans Med. and Surg. Jour.*, June, 1914; *THE LARYNGOSCOPE*, p. 888, Oct., 1914.
- 2131 SHURLY, B. R. Preventive oto-laryngology. *Jour. A. M. A.*, p. 2000, Dec. 5, 1914.
- 2132 SIEMS, C. Aero-ozonothermia in oto-rhino-laryngology. *Bull. d'oto-rhino-laryngol.*, p. 16, Jan., 1914.
- 2133 SIMMONDS, M. Death from loss of hypophysis functioning. *Deut. med. Wchnschr.*, Feb. 12, 1914.
- 2134 SIMPSON, S. Review of some recent work bearing on the functions of the pituitary body. *Am. Medicine*, p. 219, April, 1914.

- 2135 SLUDER, G. Simulation of paranasal suppurations for teaching purposes. *Trans. Am. Laryngol. Ass'n.*, p. 154, 1914.
- 2136 SMOLER, F. Operated case of cystic hypophyseal tumor. *Prag. med. Wchnschr.*, No. 8, 1914.
- 2137 SOKOLOW, W. A. Auscultation-percussion by the mouth. *Med. Klinik*, March 15, 1914.
- 2138 STAUFFER, N. P. Cervical adenitis. *N. Y. Med. Jour.*, p. 705, Oct. 10, 1914.
- 2139 STAUFFER, N. P. Common colds, their relation to sinus diseases from the rhinologist's and otologist's standpoint. *N. Y. Med. Jour.*, March 28, 1914.
- 2140 STENGER. Experiences in otologic practice. *Med. Klinik*, No. 5, 1914.
- 2141 STOLL, H. F., and HEURLEIN, A. C. Tuberculosis of the bronchial glands and lung hilus; a clinical and radiographic study. *Am. Jour. Med. Sci.*, p. 369, Sept., 1914.
- 2142 STRANCH, A. Disorders in children by imitation and induction. *Med. Rec.*, p. 95, Jan. 17, 1914.
- 2143 SYLVESTER, P. H. Diagnosis of enlarged thymus and symptomatology of hyperthymatism. *Boston Med. and Surg. Jour.*, April 2, 1914.
- 2144 TAYLOR, J. A. Bronchial spirochetosis in Uganda with pneumonic symptoms. *Ann. of Trop. Med. and Parasitol.*, April, 1914.
- 2145 TEN HORN, C. Hemorrhage from head and throat when compressing trunk. *Med. Tijdschr. v. Geneesk.*, Jan. 10, 1914.
- 2146 TOMPKINS, J. M. Hypopituitarism. *Old Dom. Jour. of Med. and Surg.*, Aug., 1914.
- †2147 THOMPSON, J. A. Proper fields of medicine and surgery in diseases of the upper air passages. *THE LARYNGOSCOPE*, p. 741, Aug., 1914.
- 2148 THOST, A. Roentgen treatment of affections of upper air tract and ear. *Monatschr. f. Ohrenh.*, Heft 1, p. 84, 1914.
- 2149 TOEPLITZ, M. Five hundred examinations of nose and throat in an institution for delinquent boys. *Med. Rec.*, p. 480, March 14, 1914.
- 2150 TORRICIANI, C. A. Indications for ligature of jugular. *Arch. ital. di Otol.*, p. 177, June, 1914.
- *2151 TURNER, A. L. Peculiar form of hyperplasia of the mucous membrane of the upper respiratory tract. *Jour. of Laryngol.*, p. 57, Feb., 1914.
- 2152 UFFREDUZZI, O., and GIORDANO, G. Experimental surgery of aorta under intra-tracheal insufflation general anesthesia. *Arch. f. klin. Chir.*, Vol. 103, No. 2, 1914.
- 2153 VAN DER WAL, K. Hearing capacity of school-children. *Nederl. Tijdschr. v. Geneesk.*, Vol. 58, No. 10, p. 697, 1914.
- †2154 VAN WAGENEN, C. D. Report of secretary of New York Academy of Medicine, Section on Laryngology and Rhinology. *THE LARYNGOSCOPE*, p. 52, Jan., 1914.
- 2155 VICENTE, G. Oto-Rhino-Laryngologic complications in variola. *Rev. clin. de Madrid*, April, 1914.
- 2156 VON DEN VEDEN, R. Coagulation of the blood after injection of albumin bodies. *Deut. Arch. f. klin. Med.*, Vol. 114, Nos. 3-4, 1914.

- 2157 VON DEN VELDEN, R. Clinical and experimental study of hemophilia. *Deut. Arch. f. klin. Med.*, Vol. 114, Nos. 3-4, 1914.
- 2158 VON STEIN, S. Treatment of carcinoma and sarcoma by Pyrolaxin. (Ergaenzungsbeobachtungen zur Krebs-und Sarkomtherapie mittels Acido-pyrogallico oxydato-pyrolaxin-Kalksalze. Chromsaure. Kampher. Hexaoxydiphenyl). *Ztschr. f. Laryngol.*, Bd. 6, Heft 6, p. 801, 1914.
- 2159 WAGNER, C. New York Laryngological Society. *Med. Rec.*, p. 1, Jan. 3, 1914.
- 2160 WALES, E. DE W. Interesting papers in oto-laryngology for 1913. *Ind. State Med. Ass'n. Jour.*, Jan., 1914.
- 2161 WEIGERT, R. Unusual case of meningocele complicating whooping-cough. *Monatsch. f. Kinderh.*, July, 1914.
- 2162 WEIL, M. Transverse gunshot wound of facial portion of skull. *Monatschr. f. Ohrenh.*, Heft 11-12, p. 1319, 1914.
- 2163 WELTY, C. F. Anastomosis of the facial and hypoglossal nerves for facial paralysis. *Jour. A. M. A.*, p. 612, Feb. 21, 1914.
- 2164 WHITE, C. P. and TITCOMBE, R. H. Anterior lobe of pituitary gland. *Med. Chronicle*, p. 145, June, 1914.
- 2165 WHITE, J. V. Frontal neuralgia. *Mich. State Med. Soc. Jour.*, July, 1914.
- 2166 WILSON, W. Relation of throat and nose to some diseases met with in general practice. *Practitioner*, June, 1914.
- 2167 WULZEN, R. Anterior lobe of pituitary body in its relationship to early growth period of birds. *Am. Jour. of Physiol.*, May, 1914.
- 2168 YEARSLEY, M. Retrospect of otology, 1913. *Brit. Jour. Childr. Dis.*, April, 1914; and *Practitioner*, April, 1914.
- 2169 ZIEGLER, J. Experiences with providoforn. *Muench. Med. Woch.*, No. 37, 1914.

Books.

- 2170 ARONSOHN, O. Psychological origin of stuttering. (Der psychologische Ursprung des Stutterings). Carl Marhold, Halle, a. S., 1914.
- 2171 BALL, J. B. Handbook of diseases of the nose and pharynx. Wm. Wood & Co., N. Y., 1914.
- *2172 BALLENGER, W. L. Diseases of the nose, throat and ear, medical and surgical. Lea and Febiger, Phila., 1914.
- 2173 BARNES, HARRY A. The tonsils, faucial, lingual and pharyngeal. With some account of the posterior and lateral pharyngeal nodules. C. V. Mosby Co., St. Louis, 1914.
- 2174 BEST, H. The deaf; their position in society. T. Y. Crowell & Co., N. Y. City.
- 2175 BRIGGS, GEORGE NIXON. Diseases of the ear, nose and throat. London, 1914.
- 2176 BLUMENFELD, F. Jahres-Bericht über die fortschritte der Laryngologie, Rhinologie und ihrer Grenzgebiete. Cent kabitzsch, Würzburg, 1914.
- 2177 BRAUN, PROF. HEINRICH. Local anesthesia. Lea & Febiger, New York and Philadelphia, 1914.

- 2178 BRUEGGEMANN, A. Difficult decanulement and its relief with especial reference to methods of dilatation. (Das erschwerte Decanulement und seine Behandlung mit besonderer Beruecksichtigung der Dilatationsverfahren). J. F. Bergmann, Wiesbaden, 1914.
- §2179 BURKHOLDER, J. F. Anatomy of the brain. Introduction by Prof. H. H. Donaldson. Engelhard & Co., Chicago, 1914; THE LARYNGOSCOPE, p. 384, June, 1915.
- *2180 BUSCH, H. Phantom der normalen Nase des Menschen. J. F. Lehmann's Verlag, Munich, 1914.
- 2181 BUXTON, DUDLEY W. Anesthetics. Fifth edition, H. K. Lewis, London.
- 2182 CALDERA, C. Ozena with special regard to etiology and therapy. (L'ozena con speciale riguardo all'eziologia e terapia). Rosenberg and Sellier, Turin, 1914.
- §2183 COAKLEY, C. G. Manual of diseases of the nose and throat. Lea and Febiger, Phila., 1914; THE LARYNGOSCOPE, p. 384, June, 1915.
- §2184 DAVIS, W. B. Development and anatomy of the nasal accessory sinuses in man. W. B. Saunders Co., 1914; THE LARYNGOSCOPE, p. 832, Sept., 1914.
- 2185 EIRAS. Rhino-neurosis. Silva Mendez, Sao-Paulo, 1914.
- 2186 FORREST, J. Eye, nose, throat and ear, a manual for students and practitioners. C. V. Mosby Co., St. Louis, 1914.
- *2187 FRIEL, A. R. Obiter scripta throat, nose and ear. John Wright and Sons, Bristol, 1914.
- 2188 GERBER, P. H. Atlas of diseases of the nose, nasal accessory sinuses and naso-pharyngeal cavity. S. Karger, Berlin, 1914.
- 2189 GLEASON, E. B. Manual of diseases of the nose, throat and ear. W. B. Saunders Co., 1914.
- *2190 GÖPPERT, F. Die Nasen-Rachen-und Ohrenerkrankungen des Kindes in täglichen Praxis. Julius Springer, Berlin, 1914.
- *2191 HIRSCHEL, G. Text-book of local anesthesia for students and practitioners. Translated by Donald E. S. Krohn, M. S. John Bale, Sons and Danielson, Ltd., London.
- *2192 KASSEL, K. History of rhinology. (Geschichte der Nasenheilkunde). Curt Kabitzsch, Wuerzburg, 1914.
- §2193 KATZ, PREYSING, BLUMENFELD. (Handbuch der speziellen chirurgie des Ohres und der oberen Luftwege). Curt Kabitzsch, Wuerzburg, 1914; THE LARYNGOSCOPE, p. 831, Sept., 1914.
- 2194 KLINIKE, O. Operative results of treatment of Basedow's disease. (Die operativen Erfolge bei der Behandlung des Morbus Basedowii). Verlag S. Karger, Berlin, 1914.
- 2195 KOERNER, O. Text-book of oto-rhino-laryngology. (Lehrbuch der Ohren-, Nasen-und Kehlkopfkrankheiten nach klinischen Vortraegen fuer Studierende und Aerzte. J. F. Bergmann, Wiesbaden, 1914.
- *2196 KYLE, D. B. Text-book of diseases of the nose and throat. W. B. Saunders Co., Phila., 1914.
- 2197 LINCKE, O. Über das Cholesteatom des Schläfenbeins. J. F. Bergmann, Wiesbaden, 1914.
- 2198 LOBEDANK. (Kurze praktische Anleitung zur Erkennung aller Formen des Kopfschmerzes). Curt Kabitzsch, Wuerzburg, 1913.

- *2199 LOEB, H. Operative surgery of the nose, throat, and ear for laryngologists, rhinologists, otologists and surgeons. C. V. Mosby Co., St. Louis, 1914.
- 2200 MANN, M. Text-book of tracheo-bronchoscopy. Technic and clinical data. (Lehrbuch der Tracheobronchoskopie. Technik und Klinik). Curt Kabitzsch, Wuerzburg, 1914.
- *2202 MAUTHNER, O. (Gehoerorgan und Beruf). Curt Kabitzsch, Wuerzburg, 1914.
- *2203 MISCH, J. (Lehrbuch der Grenzgebiete der Medizin und Zahnheilkunde fuer Studierende Zahnarzte und Aerzte). Ferdinand Enke, Stuttgart, 1914.
- 2204 MORGAN, B. S. The backward child. G. P. Putnam's Sons, N. Y. City.
- 2205 MOURE and BRINDEL. Practical guide to diseases of throat, larynx, ears and nose. Dolin and Sons, Paris, 1914.
- *2206 PARK, WM. H., and WILLIAMS, A. W. Pathogenic micro-organisms, a practical manual for students, physicians and health officers. Lea and Febiger, Phila., 1914.
- 2207 PARKER, C. A., and FAULDER, T. J. Pharmacopeia of the hospital for diseases of the throat. J. and A. Churchill, London, 1914.
- 2208 RUTTIN, E. Clinical study of the serous and purulent diseases of the labyrinth. Rebman Company, New York City, 1914.
- 2209 SCHAEFER, K. L. Method of examining the acoustic functions of the ear. S. Hirzel, Leipzig, 1914.
- 2210 SCHULZ. Cyanide of mercury in treatment of diphtheria. J. Springer, Berlin, 1914.
- 2211 SIMANOVSKY, U. P. Lectures on diseases of the ear, nose and throat. St. Petersburg (Petrograd), 1914.
- 2212 SINELL, H. Association of ideas in judging deafness. Verlag Chr. Herman Tauchnitz, Leipzig, 1914.
- 2213 SONNENKALB, V. Die Röntgen-Diagnostik des Nasen-und Ohrenarztes unter mitwirkung von Zahnarzt Bode für den Teil über die Röntgenuntersuchung der Zähne. G. Fischer, Jena, 1914.
- 2214 SONNENKALB, V. Die Röntgen-Diagnostik des Nasen-und Ohrenarztes, Jena, 1914.
- 2215 R. VITTO-MASSEL. Le affezioni dell'Orecchio nell' Adenoidismo. Campidoglio-Jon'i C., Rome, 1914.
- *2216 STARCK, H. Text-book on esophagoscopy. (Lehrbuch der Esophagoskopie). Curt Kabitzsch, Wuerzburg, 1914.
- 2217 THOMA, KURT HERMANN. Oral Anesthesia. Local Anesthesia in the Oral Cavity. Ritted & Flebbe, Boston, 1914.
- 2218 TIGERSTEDT, R. Acoustic and non-acoustic functions of ear. (Die akustischen und nichtakustischen Funktionen des Ohres). Hirzel, Leipzig, 1914.
- 2219 TONIETTI, P. Alterations in the sensibility of the larynx in lesions of laryngeus inferior. A. Debate, Livorno, 1914.
- 2220 VON NAVRATIL, E. Origin and development of laryngoscopy. (Entstehung und Entwicklung der Laryngoskopie). Hirschwald, Berlin, 1914.
- 2221 VOSS, O. Staedtische Ohrenklinik. Curt Kabitzsch, 1913.

- 2222 WALB, H. Ueber Brueche des Knochernen Trommelfellrandes. A. Marcus & E. Webers, Bonn., Germany.
- 2223 WOOD, C. A. ANDREWS, A. H., and BALLENGER, W. L. Eye, ear, nose and throat. Year Book Pub., Chicago, 1914.
- §2224 WRIGHT, J. History of laryngology and rhinology. Lea and Febiger, Phila., 1914; THE LARYNGOSCOPE, p. 962, Nov., 1914.
- 2225 WRIGHT, J., and SMITH, H. Text-book of the diseases of the nose and throat. Lea and Febiger, Phila., 1914.
- 2226 ZORRAQUIN, G. Treatment of acute stenoses of the larynx. (Le traitement des stenoses aigues du larynx). Vigot Freres, Ed., 1914.
- 2227 ZUEND-BURGUET, A. Sound conduction and audition. (Conduction sonore et audition). Maloine, Paris, 1914.

DIGEST OF OTO-LARYNGOLOGY.

2

Reconstruction of the Nasal Septum. J. A. BABBITT, *Jour. Amer. Med. Assn.*, Nov. 21, 1914.

The conclusions reached by Babbitt are: (1) A submucous resection, properly and completely done, will reconstruct a perfect, functional septum. (2) If a careful superior margin be left, even with scant anterior and posterior sthenic removal, the alignment in the nose externally and internally will be satisfactory and adequate. (3) If the bulging extremities of the nasal tubercles, ridge and vomer, when obstructing the nares, are not relieved, the result of operation is unsatisfactory to the patient. (4) The removal of posterior pressure is more important than a harmonious anterior picture and unequal space in front does not necessarily disturb respiratory and drainage functions. (5) Fresh anastomoses will restore obliterated vessels to the extent of presenting a normal vascular septum if traumatism has not been unreasonable. (6) Areas in which mucous tissues were lost and replaced by squamous epithelium will probably crust, with occasional intermittent hemorrhage and irritation of the nose. (7) Perforations may be avoided if at least one firm side of mucous membrane is allowed to remain intact. (8) In soft, collapsible roof and sides, a greater margin of cartilaginous and bony ring should be left to support the flexible nose and prevent drooping. (9) Drainage and perforation posteriorly will not injure the nose and will prevent exudate and hematoma of the septum. (10) The new fibrous replaced septum bears approximately the same relation to the perichondrium and periosteum as before. (11) There is no evidence that the softer reorganized septum carries any functional disadvantage, even in its vasomotor relations.

Ed.

54

Alterations in the Blood in Hay-fever. E. EMRYS-ROBERTS, *Brit. Med. Jour.*, May 30, 1914.

The investigations made by Roberts were on his own person, as he himself was a sufferer from hay-fever. Daily examinations of the blood were made for a period of eight weeks during the attack. The hemoglobin content varied from 65-80 per cent, the color-index from 0.4 to 0.8, and the red blood-count showed an almost constant polycythemia and the leucocyte count showed almost an equally marked leucopenia. There is no enlarged spleen or cyanosis associated with the polycythemia.

The differential count showed a reduction in the number of polymorphonuclears, a marked increase in the large mononuclears, transitionals and eosinophils. Mast cells were occasionally present.

No nucleated red cells were seen at any time and polychromatosis was noted twice.

Between attacks the blood returned more to normal, but not entirely so.

Ed.

56

Anaphylactic Skin Reactions in Hay-fever Subjects Excited by Pollen of Various Species of Plants. J. L. GOODALE, *Boston Med. and Surg. Jour.*, Nov. 5, 1914.

Goodale describes the reactions caused in hay-fever patients by the application of the pollen of various species of plants to an abrasion of the skin. The advantage of a skin test over that on the eye or nose is that several tests may be applied simultaneously and it is, also, more acceptable to the patients.

The extracts of mostly anemophilous plants, in which fertilization is accomplished by air-borne pollen, were made by soaking the pure pollen for 24 hours in 15 per cent alcohol and filtering. The test is made by applying a drop of the pollen extract to an abrasion on the arm. If the reaction is positive it occurs within five or ten minutes and consists of an elevation of the skin bordering the scratch and extending rapidly in all directions for a distance of one-eighth to one inch. There may be some itching and a hyperemic border in some cases. The duration of the reaction is from one to three hours. The elevated skin is paler in color than the surrounding region. Ed.

68

Edematous Fibroma of the Nasal Fossa. A. BALLA, *Arch. ital. de Otol.*, No. 2, p. 131, 1914.

Case report of woman of 50 years, with disturbance of nasal respiration. On the upper surface of the left inferior turbinal, a tumor, the size of a pea, was discovered, which proved, histologically, to be an edematous fibroma. Ed.

111

Operations for the Correction of Deformities of the Nose. W. W. CARTER, *Med. Rec.*, Feb. 7, 1914.

The bridge-splint used by Carter consists of a lightly constructed steel bridge the two wings of which are hinged together in the middle. The distance to which they can be separated is regulated by a thumb screw. The second part of the instrument consists of two small intranasal splints perforated by several small holes. Through these holes silk sutures are first passed and knotted and by means of a curved needle each suture is then passed from within the nose through the roof, fairly near the junction of the bony with the cartilaginous dorsum. The bridge is then placed over the nose and the correct amount of pressure applied to the base of the nasal arch by means of the thumb-screw adjustment. The sutures are then passed through the corresponding holes in the bridge and sufficient tension applied to draw the nose into its proper position. The sutures are then tied over the hinge of the nose.

Carter has found this instrument of most service in cases of recent fractures, in correcting lateral displacements and depressed and irregular deformities, and has often employed the bridge-splint in the bone transplantation operation where additional support was needed. Ed.

130

Paraffin Injection in Saddle Nose and Ozena. J. FEIN, *Wien. med. Woch.*, Vol. 64, 1914.

Cases of saddle nose with adherent, resistant skin scars or those in which the bone has been destroyed as a result of trauma or necrosis are not adapted to this treatment. In the cases suitable for this treatment the injection is made just below the tip of the nose in the septum membranaceum, because the skin there is very elastic and the opening made closes immediately. If the injection is made just in the midline there is no danger of injuring vessels. Hence, it should not be made from the side of the nose. The injection must be subcutaneous. Displacement of the paraffin is best prevented by pressing the skin firmly against the bone during the injection, and at the same time it excludes the danger of embolism.

In ozena the author recommends paraffin injection. This is done under local anesthesia and the deposit is made in the lower muscle, the anterior part of the middle muscle, the floor of the nose and the septum. Noses with a thin, easily torn mucous membrane are not adapted to this treatment. Ed.

136

Nasopharyngeal and Cervical Tuberculosis in Children. A. D. FORDYCE and E. W. S. CARMICHAEL, *Lancet*. Jan. 3, 1914.

The authors state that mastoid and middle ear tuberculosis is not uncommon in children under six months of age. Its presence is diagnosed by watery discharge from the ear, soft, painless swelling over the mastoid process and facial paralysis. As the authors have never seen a case of this sort in breast-taking infants they believe that it is usually of bovine origin and secondary to infection of the tonsil. The authors ascribe the same origin to cervical adenitis. A gland lying immediately below the posterior belly of the digastric muscle and between the internal jugular and facial veins is the one most constantly and earliest involved. Ed.

143

Histology of Lupus of Mucous Membranes. P. GERBER, *Arch. f. Laryngol.*, Bd. 29, H. 1, 1914.

Gerber quotes Phillipson that "die einseitige Auffassung des Lupus als Hautkrankheit hat sehr nachteilig auf die Kenntnis dieser Krankheit und auf ihre Behandlung gewirkt" and emphasizes the fact that many of the severest cases of lupus of the nasal mucosa show an absolutely normal external nose and that the most frequent and severest form of lupus of the face is of nasal origin.

The diagnosis of lupus of the nasal mucosa is not difficult, however. Just as it may be stated that 90 per cent of all ordinary ulcerations of the mouth and pharynx are of syphilitic nature so it may be stated that 90 per cent of all granular formations in the anterior nasal cavity are of lupus nature.

Histologically, the process is one of granulation in the submucous tissue and frequently an accompanying round-cell infiltration may be the only expression of beginning lupus. In prelupus rhinitis, pharyngitis and laryngitis there is no special arrangement of the cells. But soon a cen-

tripetal accumulation of the round cells takes place, forming heaps of cells, epithelioid cells appear, the round cells are pushed peripherally, giant cells are formed, at first sparingly, often abundantly, and we have the histological picture of a full-fledged tubercle.

The author reports two cases of inner nasal lupus in which no evidence of the disease was to be found externally. Ed.

160

Rhinophyma Successfully Treated by Decortication. A. P. HEINECK, *Jour. A. M. A.*, Jan. 10, 1914.

The points of interest specially noted in this case are, its occurrence in a tailor, not particularly exposed to inclement weather and fairly moderate in his consumption of alcohol. The operation of decortication is simple and consists of the removal of the cutaneous covering of the nose, carefully respecting the cartilaginous frame-work. Ed.

163

Etiology of Genuine Ozena. G. HOFER, *Univ. Med. Rec.*, V. 5, 1914.

Hofer has been able to obtain pure cultures of the *coccobacillus foetidus ozaenae* from which he prepared a vaccine. With this he treated selected cases presenting the cardinal symptoms of genuine ozena. The results were so remarkable that the author believes that active immunization with the bacillus guarantees an absolutely favorable prognosis. Ed.

192

Investigations on the Bacteriology of the Nose. M. MARX, *Heidelberg. Zeitschr. f. Ohrenh.*, p. 37, Nov., 1914.

That so many of our patients survive our unsurgical intranasal surgery—is a wonder. It is a miracle, that so few infections occur in a locality where aseptic cautela are almost impossible and where open wounds are exposed to the activity of numerous germs. The laryngologist, up till the appearance of this article, was enabled to offer an explanation for this marvel by his orthodox belief in the bactericide action of the nasal secretion. The writer gives a hard blow to our time-honored superstition that intrusted the nasal secretion with a supernatural healing power similar to that of the famous water of the Grotto of Lourdes. By exposing the cultures of different germs (*staphylococcus aureus*, *sterptococcus longus*, *pneumococcus*, *bacillus of diphtheria* and of *anthrax*) to the action of the nasal secretion, he proves that the latter has no bactericide action at all. On the contrary, the different germs seem to thrive very nicely, due to the new spice of nasal secretion added to their old culture medium. Notwithstanding this cruel truth, the pleasant fact remains that post-operative nasal infections are a rare occurrence. The writer explains this by the relatively small number of germs present in the nasal cavity and by their expulsion through the hair cells and the sneezing act. Besides, the healing tendency is increased by the great vascularity of the nasal mucous lining. This article will convince the rhinologist that in future surgical asepsis and intranasal suturing will have to be relied upon for the prevention of postoperative infections. GLOGAU.

216

Intranasal Treatment of Lachrymal Diseases. D. R. PATERSON, *Jour. of Laryngol.*, April, 1914.

The advantages of the West operation are (1) re-establishment of the physiological function of the tear passage so that suppurations of the sac rapidly subside and the tears flow into the nose as under normal conditions; (2) the use of probes and stylets, with frequent laceration of the lining of the duct, is avoided; (3) the tear glands are preserved; (4) disfigurement as the result of an external operation is avoided. Ed.

231

Effective Method to Prevent Post-Operative Nasal Hemorrhages. A. I. SCHWARTZ, *N. Y. Med. Jour.*, Oct. 31, 1914.

A pledget of absorbent cotton, on a nasal applicator, dipped in a 100 per cent solution of silver nitrate is carefully passed over the cut surface. Schwartz finds that this insures against hemorrhage. Ed.

235

Necessity for the Routine Examination of the Nose and Throat. JANE S. SPROULE, *Can. Jour. of Med. and Surg.*, Jan., 1914.

The author emphasizes the failure of the general practitioner to employ the same diligence in ascertaining the conditions present when the patient is complaining of earache, a severe cold, or an obstinate cough, as he would do if dealing with pain in the region of the kidneys or of the chest, and believes that he should be as familiar with the use of his head-mirror, nasal speculum and tongue-depressor, as he is with his stethoscope or urinometer.

WISHART.

239

Use of Normal Horse Serum for the Prevention of Hemorrhage in Nose and Throat Operations. C. F. THEISEN and N. K. FROMM, *Albany Med. Ann.*, Oct. 1914.

In eight cases reported by Theisen and Fromm the average coagulation time before injection of the serum was 5.18 minutes, and after injection 4.12 minutes, making an average decrease in coagulation time of 1.06 minutes. In view of the comparative safety in the use of the serum and the great reduction in the danger of post-operative hemorrhage the authors advise its use whenever an operation is to be undertaken in a subject of the hemorrhagic or hemophilic type. Ed.

248

Oculo-Motor Paralysis of Otitic Origin. F. H. WESTMACOTT, *Jour. of Laryngol.*, 1914.

Interference with the function of the third cranial nerve may occur in one of three parts, (1) in the nuclei of origin in the grey matter in front of the aqueductus cerebri and the corpora quadrigemina, together with the supranuclear portion; (2) in the portion extending from the point of exit of the united bundle of fibers on the medial side of the cerebral peduncle and passing forward to pierce the dura mater beside the clinoid process and (3) from its entrance into the supra-orbital fissure and orbit, in cases in which it divides, to the terminations of its distribu-

tions. When paralysis exists with ipsilateral otorrhea accompanied by headache and vomiting, the ear, nasal fossæ and accessory cavities should be thoroughly examined. Nasal disease infection is more common in the production of paralysis of the occulo-orbital nerves than aural disease.

Ed.

290

Pharyngeal Tonsils. A. BLUMENTHAL, *Gtschr. f. Ohrenh.*, Bd. 71, Heft 1-2, p. 123, 1914.

Rhinology established the fact that the adenoids represent an organ created for the mere purpose of being removed. Any helpless baby indulging in the perverse habit of oral breathing is strapped to the chair and operated. On account of the stubborn continuation of the mouth breathing, the culprit, against all criminal laws, may be punished again and again for the same adenoidal crime, while a timely inspection or an untimely autopsy might reveal the total absence of the corpus delicti.

Nasal breathing is easily interfered with by soft and hard nasal obstructions, such as hypertrophied turbinates, septal deformities, congenital narrowing of the passages, adhesions, synechiæ, etc. That the very place of the adenoids may be taken by a bony structure and that adenoids, even if really present and of any size whatsoever need not be the cause of mouth-breathing, is demonstrated by the writer on a number of instructive anatomical specimens. He forgives the beginner in rhinology for mistaking the anterior tubercle of the atlas for the dreaded growth; the thankful child cheerfully swallows the broken part of the ring knife and delivers it in the natural way. To the experienced specialist he demonstrates the presence of immense exostoses at the base of the adenoids, that upon the application of force, will show the bone to be stronger than steel. If the supposed adenoids are but the immensely hypertrophied tuberculum pharyngeum (attachment of the constrictor pharyngis superior) it would be necessary to use the chisel and a mallet in order to show the anxious parents the promised fruit from the naso-pharyngeal vault of secret. The processus basilaris of the occiput occasionally forms at the foramen magnum, a projecting bony hook just enticing the adenotome to hook on. Mouth-breathing, the indication for adenoidectomy, may be due to a stenosis between vertebral column and soft palate and is then caused by a projection of the uppermost servical vertebra. Nasal breathing depends furthermore, upon the size of the angle formed between the basilar process of the occiput and the posterior margin of the vomer; the bigger the angle the roomier the naso-pharyngeal vault and vice versa. In the presence of a big vomere-basilar angle even large adenoids do not represent a serious obstacle to nasal breathing.

The instrument-makers henceforth will have to stamp into the adenotome the memento: stop and think.

GLOGAU.

298

Diphtheritic Tonsillitis. W. C. BURROUGHS, *Can. Lancet*, May, 1914.

The writer gives voice to the very remarkable conclusion that because the results of treatment are rapid, antitoxin is expensive, and its demonstration unpleasant, that in those cases of tonsillitis where the smears and cultures demonstrate the presence of the diphtheria germ, the case should

be treated as simple follicular tonsillitis, caused partially by an avirulent type of diphtheria germ mixed with streptococci. He further comes to the following conclusion: that one should be able to diagnose diphtheria with the naked eye in nearly all cases, and that no case should be quarantined which cannot be diagnosed beyond doubt with the naked eye.

WISHART.

299

Case of Angioma of the Tonsil. C. CALDERA, *Arch. ital. di Otol.*, No. 2, p. 158, 1914.

Girl of 17 years had nut-sized tumor of the tonsil, which histological examination showed to be angioma.

Ed.

322

Hemorrhage Following Tonsillectomy. E. GARLAND and D. C. GREENE, *Boston Med. and Surg. Jour.*, April 2, 1914.

In practically all of the cases that the authors have seen (about one hundred) the bleeding has been in cases where the tonsillar fossae and the pillars of the palate have remained intact. They believe that this may be due to the presence of a small venous plexus, as a result of chronic inflammation, in the fossa of the tonsil. It may be that one of these veins is split longitudinally by the tonsil or snare so that as a result of the throat movements the forming clot is continually expelled. Furthermore, the constant bleeding is more often venous than arterial. The dangerous type of bleeding which may lead to death is most often a constant ooze which may continue for hours without any classical signs of hemorrhage. Usually the patient swallows the blood so that unless vomiting occurs, the hemorrhage may continue without the slightest external evidence. The authors mention a case in which such bleeding was not detected until ten hours after the operation.

One sign which may be relied upon to give evidence of bleeding, even though a good view cannot be obtained of the patient's throat, is the presence of a clot in the fossa above the bleeding point. This clot is always present and it is sufficient evidence of bleeding. It appears at the beginning of the bleeding, and not as many danger signals, when it is too late. Thus by careful examination of the throat and early detection of the clot, the presence of serious hemorrhage is immediately detected. In such a situation the pillars should at once be sutured.

Ed.

344

The Pharyngeal Tonsil in the Adult. LOUIS G. KAEMPFER, *Med. Rec.*, July 11, 1914.

After describing the anatomical arrangement of the glandular structure, as mentioned by Schwabach and others, and calling attention to its symptomatology, the author offers the following conclusions: (1) The pharyngeal tonsil persists in adult life, sometimes entirely unchanged anatomically. (2) It acts in those cases as the causative or as an important contributory factor in some of the stubborn chronic conditions of the nose, pharynx, and ears in early adult life. (3) A routine examination should be instituted to determine whether its presence accounts for existing symptoms, and whether its removal may save the patient from more radical operative treatment of the nose, throat, or ear.

LEDERMAN.

393**Median Lozenge-Shaped Glossitis of the Dorsal Surface of the Tongue.**Brocq and PAUTRIER, *Ann. de Dermatol. et de Syph.*, January, 1914.

The authors report the details of sixteen cases of a special lesion situated on the dorsum of the tongue to which their attention has, for some years, been drawn. The seat of the affection is remarkably constant and is found in the center of the middle part of the dorsum of the tongue. It is always arrested in front of the zone where the calyciform papillæ mark out the lingual V. It is roughly lozenge-shaped with its long axis antero-posterior and its average dimensions are about one inch by three-fourths of an inch. The appearance of the lesion is that of exfoliation, with a smooth, rose-colored surface exposed on which are sometimes seen opaline points or patches or, in some cases, scattered or aggregated globular elevations. The lesion is painless and is very rebellious to treatment.

As to the etiology of this condition the authors can shed no light. The condition has been found by them inluetics as well as in non-luetics. Some were heavy smokers, others did not smoke at all. The histology of the lesion is distinct from tuberculosis or mycotic infection. Ed.

395**Hypernephroma of the Base of the Tongue.** H. COENEN, *Berliner Klin.**Woch.*, Sept. 14, 1914.

The localization of Grawitz tumors, as Coenen prefers to call them, originating from aberrant germs of adrenal tissue, in the base of the tongue is rare. The case reported by Coenen was in a woman, 62 years of age, who had noticed a swelling on the tongue for about a year. It caused difficulty in swallowing. Carcinoma and syphilis were excluded. The tumor, about the size of an English walnut, was excised and proved, on histologic examination, to be a hypernephroma. There was no evidence of hypernephroma of the kidneys or adrenals. Ed.

414**Lingual Tuberculosis.** W. B. TRIMBLE, *N. Y. Med. Jour.*, March 7, 1914.

Trimble states that tuberculous ulcers of the tongue have the following diagnostic points: They usually affect the free border near the tip, the dorsum is generally free, they are as a rule, superficial, the base is generally a dirty yellow, probably representing small areas of caseation necrosis, the ulcer may be oval or gyrate but the borders are usually sharply defined against the healthy tissues, sloping and not undermined; the lesions show no induration.

The majority of tuberculous ulcers of the tongue are secondary. Histopathologic examination will exclude carcinoma but is of little value in differentiating between tuberculosis and syphilis. Ed.

420**Tuberculosis of the Tongue.** J. WEINSTEIN, *N. Y. Med. Jour.*, Dec. 6, 1914.

J. Weinstein reports a case of this condition in a male patient, 55 years of age. The difficulty of diagnosis of lingual tuberculosis is due to the impossibility, in most cases, of demonstrating the tubercle bacilli in the ulcer. In any case of ulcer of the tongue tuberculosis must be borne in

mind in addition to syphilis and cancer. The histopathological examination is practically of no use in distinguishing syphilis and tuberculosis, but it is serviceable in excluding carcinoma.

Ed.

422

Case of Vincent's Angina Treated with Neosalvarsan. H. H. AMSDEN, *Med. Rec.*, May 9, 1914.

Good results followed the intravenous injection of 0.6 gram of neosalvarsan, when local applications of various remedies had failed. The fusiform bacillus and spirillum were found in the examination of the smears, and practically no other bacteria could be detected. The ulceration had extended until it covered nearly the whole faucial surface of the tonsil. After the injection the throat was much improved and had healed in three days. The other side of the throat became involved three days later and another injection of the same dose was given, with equally good results.

LEDERMAN.

468

On Primary Hypertrophy of the Gums and Reduplication of the Upper Lip. D. M. GREIG, *Edinburgh Med. Jour.*, Sept., 1914.

The writer describes an unusual condition which he has met with in three patients, a man, a woman, and a girl, in whom there has been marked hyperplasia of the normal mucous membrane of the gums, so that the crowns of the teeth are more or less embedded in the hypertrophied tissue. The latter is not spongy, does not bleed readily, and is not regenerated after removal. The etiology is doubtful. Treatment has consisted of removal of a strip of the tissue from the labial aspect of the alveolus, and has been permanently successful.

He has seen also several cases in which the upper lip appeared to be reduplicated by the presence of a thick fold of mucous membrane consisting of a central and two lateral segments, and forming a mass as large as the lip itself. It caused deformity and interfered with the wearing of a denture, and was successfully treated by excision. GUTHRIE (LIVERPOOL.)

497

Treatment of Pneumococcic Sore Throat. E. LESCHKE, *Muench. Med. Woch.*, December 29, 1914.

Leschke finds that optochin (ethylhydrocuprein) seems to have a specific action on the pneumococcus. In sore throat caused by this germ it should be given in doses of 0.4 gm. three times a day after meals, in wafers. It has an antipyretic action only in pneumococcic infection; it has no such action in other infections.

Ed.

533

Differential Diagnosis Between Tuberculosis and Syphilis of the Upper Respiratory Tract. O. STRANDBERG, *Hospitalstidende*, March 18, 1914.

Lupus generally develops with an infiltrated margin, large granulations and mucopurulent secretion. In syphilis the granulations are fine and the secretion is more serous. Another point that Strandberg mentions is that lupus rarely invades the mucosa of the upper respiratory passages as a primary lesion while in isolated syphilitic lesions during the third stage this is a frequent location. The Wassermann test may be negative, especially not long after a course of specific treatment.

Ed.

549

Frontal Sinus Suppuration. H. A. LOTHROP, *Ann. of Surg.*, June, 1914.

Lothrop sutures the edge of the skin of the upper lid to the periosteum on the outer edge of the bony opening into the sinus with small catgut. An oval incision is made in the lid down to the muscle fibers so as to form a flap about the same size as the opening in the bone. The flap is now turned so as to cover the bony opening and is sutured to the periosteum, with chromic catgut. The lid is drawn across horizontally and as there is very little tension or edema the mobility of the lid is not interfered with. The parts are washed carefully with sterile solution and the remaining wound closed.

Ed.

552

Test for Empyema of the Frontal Sinus. SARBO, J., *Med. Klinik*, No. 13, 1914.

The patient is taken into a darkened room and a small electric torch held under the supraorbital margin with its light directed upwards. If the frontal sinus is normal, the frontal region just above the orbit is seen to be translucent; if there is empyema of the frontal sinus no such translucency can be elicited.

Ed.

583

Surgery of the Maxillary Antrum: Intranasal Route. L. M. HURD, N. Y. *State Jour. of Med.*, Sept., 1914.

The author has obtained the best results in draining the antrum by the following procedure: After anesthetizing the nose and antrum with adrenalin and alypin the inferior turbinate is severed half-way back from its attachment and pushed over against the septum. By means of a chisel the naso-antral wall is entered and removed as far anteriorly and posteriorly as the antrum extends, upward as far as the junction of the inferior turbinate to the antral wall and downward to the floor.

The antrum is douched out and the inferior turbinate replaced with gauze packing.

Ed.

645

Gunshot Injury of the Right Cavernous Sinus. E. STREISSLER, *Deut. Gesellschaft. f. Chir.*, 1914.

A man, 25 years old, was suffering from neuro-paralytic keratitis of the right eye from partial anesthesia of the first branch of the trifacial nerve and from abducens palsy, following a gunshot wound in the head. The location of the bullet was further confirmed by Roentgen examination.

Streissler ligated the external carotid under Hærtel's ganglion anesthesia and the gasserion ganglion found through the temporal by Lexer's method. The dura was opened in the neighborhood of the foramen ovale and the bullet found in the lateral wall of the sinus, about one centimeter behind the anterior clinoid process. It was successfully extracted without hemorrhage.

Ed.

655

Un Caso de Papilomas de la Glotis Curado por el Radio. EMILIO MARTÍNEZ, *III. Congreso Med. Nacional de Cuba*, Diciembre, 1914.

A boy, six years old, native of Cuba, applied to the University Clinic at

The Mercedes Hospital (Havana), on Dec. 14, 1913, with laryngeal trouble of two years' standing; on examination the author found he had his glottis full of papillomata producing loss of voice and slight dyspnea. He was sent to the Radiological Department of the hospital and treated by external applications, for fourteen days, with a plate of radium, filtered, of four centigrammes, during a total of 81 hours. This treatment was useless as he had twice erythema of the skin and his dyspnea increased obliging me to perform tracheotomy.

With his respiration insured by the tracheal cannula Martinez resolved to try radium in direct applications to the larynx; a hard rubber intubation tube was made (without any metal) and a radium tube was placed in the lumen and intubated the boy, using an ordinary curved forceps and leaving the silk thread in place so the nurse could extract the tube after a session of several hours. The radium employed was of ten milligrammes and one-fourth purity inclosed in a platinum sheath; the applications were made as follows:

Jan. 17, 1914.....	1 hour, 30 minutes
" 22, "	2 " 30 "
" 24, "	1 " 55 "
" 27, "	2 " 00 "
" 29, "	1 " 30 "
Feb. 7, "	1 " 30 "
" 10, "	0 " 14 "

Total11 " 9 "

The patient began to improve from the first days of February, his voice was better and he could breathe through the larynx. He was kept under observation all the month of March and on the 6th of April the tracheal cannula was removed, having recovered his voice and natural respiration. Up to this date (Dec. 6), there has been no recurrence. MARTINEZ.

659

Transitory Aphasia. BARJON and FROMENT, *Lyon Med.*, April 26, 1914.

The authors report a case of right hemiplegia with angina pectoris later proving fatal, in which, although there had been but temporary aphasia at the time of the apoplectic stroke (the power of speech having subsequently been fully recovered) there was found post-mortem a complete destruction, by softening, of the entire left third frontal convolution, most of the second frontal convolution, the lower three-fourths of the Rolandic area, the operculum and the convolutions of the island of Reil. The whole of Broca's area was destroyed as well as nearly all of P. Marie's lenticular zone.

It follows, therefore, that the "speech area" is not exclusively concerned with the function of speech. Broca's area, after destruction, may not only be substituted by other centers but it is remarkable with what rapidity such substitution may occur, as in the case referred to. Broca's area is not a mnemonic center in which are stored up motor images of articulation. The anterior centers, disease of which causes aphasia and agraphia, merely take part in the elaboration of words in the same way as the posterior centers appear to be concerned with the comprehension of words (word deafness and blindness). ED.

674

Localization of Motor and Speech Centers in Definite Areas of the Cortex and Brain. E. DUPUY, *Lancet*, July 25, 1914.

In the first 600 cases of hemiplegia which the author has collected 260 showed lesions in the right hemisphere from which fact he concludes that there is no difference in the functions of the two halves of the brain. Numerous operations to remove the cause of convulsions or contractures, show that removal of the centers for the arm or hand, for example, causes a disappearance of the convulsions or contractures, but no paralysis. Marie tried to show that aphasia is composed of different conditions—one the loss of power of pronouncing words, the other the loss of comprehension and understanding (sensory aphasia). Marie placed the lesion in aphasia in that part of the temporoparietal lobe which he defined in a quadrilateral space including Wernicke's convolution and deeper parts. Dupuy, however, is of the opinion that there are no supplemental centers but that the entire cortex is endowed with the faculty of acting in a specific and differentiated manner and that disease or destruction of a given area brings on motor paralysis or aphasia by an inhibitory influence. Ed.

685

Re-Education of Speech in Motor Aphasia. J. FROMENT and O. MONOD, *Lyon Med.*, Feb. 15, 1914.

The authors advocate "psycho-physiologic" speech re-education. The object in this new method is to restore the memory of sounds and the association between visual and auditory impressions, beginning with individual syllables and later building up polysyllabic words. Ed.

695

Problem of the Stammering Child. E. I. KENYON, *Jour. Ophthal. and Oto-Laryngol*, Aug., 1914.

Stammering seems to occur after a certain stage in the mental development of the individual. Following this period the child appears to become socially emotional which the author believes to be the fundamental factor in impediment of speech. As the child grows stammering sometimes improves without treatment or what may be said to be the mature adjustment of social environment. Other children are less fortunate and struggle for years. Effective cure lies in education and training, the treatment of the defective speech itself and the conditions that arouse emotion. Ed.

724

Voice Sign in Chorea. W. B. SWIFT, *Amer. Jour. Dis. Child.*, June, 1914.

Examination by Swift of vocal utterance in chorea on the kymograph demonstrated a pretty constant voice change consisting of rise in pitch and increase in intensity accompanying choreic movements. He found that choreic contractions cause changes in pitch and intensity in vocal utterance. The most marked change is in the vowel *a* as in *around*. The increase of intensity is caused by increased contraction of expiratory muscles and the rise in pitch is caused by increased contractions of the vocal cord muscles. That is to say, choreic muscle contractions in the expiratory muscles cause increased air pressure which results in in-

creased intensity in the voice and choreic muscle contractions in the vocal cord muscles result in increased tension there and hence increased frequency of vibration which raises the pitch in the voice. Ed.

728

Pathogenesis of Stuttering. E. TROEMMER, *Med. Klin.*, March 8, 1914.

Troemmer regards stuttering as a motor *Zwangsnervose* or obsession-neurosis, somewhat similar in nature to *tic impulsif*. Of ninety cases studied he found hereditary influences in eighty-five per cent, including forty with a simple neurotic taint, thirty-four with inherited stuttering and eleven with both. Infectious diseases and trauma have a marked influence on the neurosis. Damp weather and fatigue are likely to aggravate stuttering. The child begins to stutter merely from some awkwardness in speaking, from ignorance of or forgetting the proper word, and this gradually becomes fixed as a pathologic habit. Then comes the stage in which the effort to speak with as little stuttering as possible causes abnormal contractions of the muscles of the face and body, the obsession inhibitions having now an obsession motor accompaniment. The third stage is that in which autosuggestion or annoyance and dread amounting to an actual phobia magnify all the phenomena. When the attention is directed away from it, the condition may show some improvement, hence he defines stuttering as a localized form of obsession-neurosis. Ed.

733

Suspension Laryngoscopy in Children. W. ALBRECHT, *Jour. Laryngol., Rhinol. and Otol.*, Feb., 1914.

Albrecht states that suspension laryngoscopy in children is much simpler than in adults because of the upright position of the epiglottis, which often permits of a satisfactory view as soon as the base of the tongue is pressed upon, and to the slender neck in children. Clinically, the procedure has rendered more certain the removal of the larger infantile nodes ("screamer's nodes"), the operative treatment of laryngeal tuberculosis, the operative treatment of papilloma which the author considers its great field. Enucleation of the tonsil may also be practiced with suspension laryngoscopy, especially when operating under narcosis. Enucleation may be affected in a few minutes under entire visual control. Ed.

737

Cancer of the Larynx with Special Reference to Radium Therapy. J. C. BECK, *Ann. of Otology*, p. 166, 1914.

Beck noticed that in the cases where radium was used the growths changed more than in the cases where it was not used. Microscopically, also, destructive changes could be observed in the tumors. Pain was usually absent. In some cases the radium had an inhibitory tendency on the growth of the carcinoma, in other cases it had no influence whatever. Ed.

758

Broncho-Pulmonary Complications in Pharyngo-Laryngeal Surgery. A. CASTEX, *Bull. d'oto-Rhino-Laryngologie*, p. 193, July, 1914.

The prevention of broncho-pulmonary complications may be obtained through the observance of the following precautions: (1) antiseptic

spraying during three days previous to operation; (2) putting the teeth into good condition; (3) no general anesthesia with chloroform; (4) local anesthesia; novocaine for the exterior, and cocaine for the interior; (5) operation in two sittings for laryngectomies, with attachment of the trachea to the skin; (6) a little delay after opening the trachea in holding it open to permit the patient to expel the blood which has entered the respiratory passages; (7) no cannula to be allowed in the trachea; (8) an esophageal tube to remain in position for eighteen days; (9) suturing the bleeding surfaces as much as possible; (10) touching with tincture of iodine the raw surfaces that cannot be sutured; (11) dressing and draining with aseptic gauze and frequent change of dressing. Ed.

766

Erroneous Deductions from Tracheal Insufflation. R. C. COBURN, N. Y. *Med. Jour.*, June 20, 1914.

It is Coburn's contention that less shock follows operations performed under insufflated ether, not because it protects against shock better than inhaled ether, but because it relieves the extra burden thrown upon respiration. It has been shown by Crile that ether or nitrous oxide do not produce shock *per se*. But where there is trauma brain cell exhaustion under ether is three times greater than what occurs under nitrous oxide anesthesia in the normal subject. Again, ether when inhaled directly devitalizes the patient through respiratory restriction and by dissolving the blood cell lipoids thereby embarrassing the organs of elimination and disintoxication.

While the increased intrapulmonary pressure of tracheal insufflation increases the alveolar oxygen tension and facilitates oxygenation, the alveolar carbon dioxide tension remains unaffected as its percentage varies inversely with the pressure and is not decreased unless there is an increase in alveolar ventilation. Intratracheal insufflation really produces hypercapnia, necessitating periodic interruptions (according to Meltzer's technic) to partially deflate the lungs and thus increase alveolar ventilation. Ed.

771

Indirect Intra-Laryngeal Method for Removal of Benign Neoplasms. H. H. CURTIS, *Jour. A. M. A.*, Nov. 28, 1914.

Cleanse the throat and larynx and then spray into the larynx a 4 per cent cocaine muriate solution in small quantity. Apply the same solution to the uvula, pillars and posterior pharyngeal wall and massage these parts with the applicator in order to accustom these parts to the feel of the instrument. Have the patient hold out the tongue or have an assistant use an Escaeat epiglottis lifter in case the epiglottis is in the way. The head of the patient should be steadied by a nurse and the instrument introduced until all fear on the part of the patient is overcome. In operating it is well to educate the patient to use the vowel sound A, changing to E without moving the tongue. The A changing to E brings the cords to the highest plane possible and gives the best view of the cords to their fullest extent. Then without dropping the cords and in the E emission, at the command "Now," the patient should be taught to take a deep breath suddenly without making any sound or body movement and with com-

plete relaxation. At that instant the forceps are introduced and the growth is seized. This applies to the subglottic growths and those on the border of the cords. Growths situated on the upper surface are removed during the E emission.

Ed.

783

Perichondritis of the Larynx. V. FRUHWALS, *Wien. Klin. Woch.*, Jan. 15, 1915.

Fruhwals cites two cases of perichondritis of the thyroid cartilage manifesting itself as an exolaryngeal and endolaryngeal swelling. Both cases were secondary to tuberculous ulceration of the larynx and were treated by incision and drainage. In one of the cases extensive tubercular granulations of the wounds were treated with radium with moderate relief.

Ed.

786

Intermittent Claudication of the Larynx. J. GAREL, *Ann. Des Mal. de l'Oreille*, No. 6, 1914.

Garel reports a case of intermittent aphonia in a patient aged 48 years, who was at the same time a subject of claudication of the right leg. At an earlier stage of the trouble the intermittent aphonia did not occur during singing, only during speaking, except if the patient happened to sing flat or below the tone necessary for him to retain his vocal powers. In such an event he would be taken with a constriction of the throat followed by an aphonia of long duration. The patient has lately been troubled with eye fatigue, making it difficult to read or write, even large characters.

Ed.

796

Scarlet Red in Tubercular Laryngitis. E. E. HINMAN, *Albany Med. Ann.*, p. 18, Feb., 1914.

The ointment that Hinman uses is of 10 per cent strength and has a base composed of equal parts of oil of sesame and petroleum. The drug is said not to be irritating and the applications are not distressing. The first and most surprising result obtained was a very prompt relief of pain. This was noted in every case in which pain had been present. It was reduced in all cases and relieved entirely in some. In all cases but two (in these the disease was far advanced and the patients died soon after) ulcerations showed a tendency to heal. A few patients presented only infiltrations and edema but these subsided very markedly after a few weeks' treatment with scarlet red. However, these were incipient cases which improved generally during this time so that the local improvement may have been due as much to the general improvement as to the local action of the dye. But it is very possible that the drug has a selective action through the unbroken mucous membrane.

Ed.

802

Value of Roentgenography in Diagnosis of Diseases of the Larynx and Trachea. S. IGLAUER, *Jour. A. M. A.*, Nov. 21, 1914.

Ordinary examinations will ordinarily afford satisfactory diagnoses of diseases of the larynx and trachea but these observations are for the most part limited to a study of the changes in the lining mucous membrane

and give no certain data concerning the deeper parts. X-ray examination gives additional information concerning the pathological changes in the underlying cartilages. These are more or less involved whenever the mucous membrane is chronically inflamed, such as in tuberculosis or syphilis. In stenosis or distortion of the lumen of the larynx or trachea, X-ray examination usually reveals the seat, nature and extent of the lesion. Roentgenography allows, also, the study of the effects of operation, the position of tubes, etc.

Ed.

805

Extirpation of the Arytenoid Cartilage in Laryngeal Stenosis. IWANOFF, A., *Rev. hebdomadaire de Larynx, otol. et de rhin.*, Feb. 21, 1914.

In stenosis of the larynx, due to immobilized median position of the vocal cords, Iwanoff recommends extirpation of the arytenoid cartilage in order to secure and maintain a larger glottis and thus dispense with the permanent use of the tracheal cannula. A case is related in which the operation proved satisfactory and the operation itself is described in detail.

Ed.

806

Resection of the Vocal Chords in Laryngeal Stenosis. A. IWANOFF, *Rev. hebdomadaire de Larynx, d'otol. et de rhin.*, Feb. 28, 1914.

Iwanoff reports four cases of laryngeal stenosis in which he has resected the vocal cords in order to permit the patient to breathe without the use of a cannula. The stenosis was due to the median position of the vocal cords. Iwanoff states that the voice is not much impaired and in some cases it is even better than in many cases of chronic laryngitis.

Ed.

807

Direct Method of Laryngeal Operations. C. JACKSON, *Jour. A. M. A.*, Nov. 28, 1914.

Jackson concludes that the direct method is the one of choice in laryngeal operations in children. The indirect or mirror method is applicable only to adults. The reversal of the image sagittally, without reversal laterally, compels the operator to develop the ability to move his forceps backward when the image appears to require a forward movement and, more difficult still, is the necessity to combine for diagonal movement a reversed anteroposterior with a true lateral movement. The difficulties of the direct method do not require such prolonged practice to overcome as the indirect.

No anesthetic, general or local, is required in operating on the larynx in children. Local anesthesia should be used in adults, general anesthesia being used only when cocaine is contraindicated or when it will interfere with the operation (as in too much shrinkage of the part to be removed).

Ed.

809

Severe Non-Diphtheritic Stenosis of the Larynx in Children. KOECK, *Muench. med. Woch.*, Aug. 18, 1914.

The atypical form of croup usually attacks children of the school age. It is at first an ordinary rhinolaryngitis in which stenosis develops slowly

and steadily until severe air hunger demands intervention. The condition, as a rule, rights itself spontaneously from the fourth to the sixth day. The author reports two cases in nurslings. One child suffered a relapse and died of pneumonia. The second attack of laryngitis was phlegmonous and the combined condition represented a pyogenic infection. Intubation and tracheotomy were without avail. Koeck believes that pyogenic infection of the larynx causes greater injury than the Klebs-Loeffler bacillus and that intubation is contraindicated in such cases. Ed.

811

Histological Examination of the Superior Laryngeal Nerve After Injections of Alcohol. LANNONIS and BÉRIAL, *Rev. hebdomadaire de Laryngologie*, March 7, 1914.

The authors report nine cases in which they examined the superior laryngeal nerve in patients who succumbed a few days after injections of alcohol for the relief of pain in laryngeal tuberculosis. These examinations were controlled by similar examinations in cases of laryngeal tuberculosis who had not been subjected to alcoholic injections. It may be said in general that the results modified the nerve trunk very little. When histological modification was present it was always periaxial. Ed.

813

Effect of Ultra-Violet Rays and Their Therapeutic Use in Laryngology.

E. LAUTENSCHLEGER and S. ADLER, *Arch. f. Laryngol.*, Bd. 29, H 1, 1914.

The results of the authors correspond with those of Friedberger and Shioji and show that in order to obtain any bactericidal action from ultra-violet rays the irradiation must be continued for a long time. The practical use of this method so far as the mouth is concerned is very slight. In cases where virulent germs are massed in the tonsil region or pharynx (such as streptococci in recurrent angina and chronic rheumatism, diphtheria bacilli in rebellious bacilli carriers) the tonsils should be removed radically and no dependence placed on sterilization by means of ultra-violet light. Ed.

821

A Report of Two Hundred and Forty-One Cases of Laryngeal Tuberculosis Treated at the Rutland Sanatorium. JAMES A. LYONS, *Boston Med. and Surg. Jour.*, July 2, 1914.

Early or incipient laryngeal lesions are the ones most amenable to treatment. But over-treatment is avoided. The larynx is examined at least three times a week. Each examination is followed by a spray with Dobell's solution and this is then followed by a spray with a ten or a twenty per cent solution of argyrol. A steam inhalant consisting of eucalyptol four parts, tincture of benzoin sixty parts and menthol two parts is employed when there is tracheitis. Or else an intratracheal injection of guaiacol nine parts, eucalyptol two parts and menthol one part in a saturated solution of iodoform in ether one hundred parts, is prescribed. The application of medicaments to the larynx on cotton swabs is avoided. It implies traumatism. The less these cases are interfered with the better.

In ulcerated cases local applications are made with Lake's mixture (lactic acid fifty parts, formalin seven parts and carbolic acid ten parts),

but it is most expedient to limit the use of this mixture to not more than two or three times a week. If the application causes pain the strength of the lactic acid should be reduced. On alternating days the larynx is sprayed with 20 per cent argyrol.

BERRY (MOSHER.)

826

Total Laryngectomy for Cancer. W. M. MINTZ, *Russky Vrach*, April 19, 1914.

Mintz reports the histories of twenty-nine cases in which he performed total laryngectomy for carcinoma. Seven of the patients (24 per cent) lived for more than one year and three are in good health to date, after seven, eight and twelve years, respectively, since the operation. Ed.

831

Spontaneous Cure of Cancer of the Larynx. PUGNAT, *Arch. internat. de Laryngol., d'Otol. et de Rhinol.*, May-June, 1914.

This case occurred in a man, 60 years of age. An oval, red tumor as large as a bean occupied the entire left arytenoid region to the left vocal cord. This it masked entirely. Microscopic examination of a fragment removed with cutting forceps confirmed the clinical diagnosis. As surgical intervention was refused by the family, warm sprays of an aqueous solution of adrenalin 1 to 10,000 were prescribed five or six times daily. An oily adrenalin solution was instilled into the larynx every two days.

The tumor gradually decreased in size, and after some weeks the voice (the patient had been hoarse for several months) was almost normal in tone, the anterior two-thirds of the left vocal cord had become visible and at the end of three months there was no more hoarseness. By the end of the following month the larynx had become absolutely normal and no trace of the tumor was there.

A submaxillary ganglion on the left side which had been enlarged and of hard consistence had not diminished in volume and had even become more indurated. Eleven months after the entire disappearance of the laryngeal growth the patient returned with a submaxillary growth about the size of a mandarin orange at the same place where the enlarged gland had been noted in the first instance. The larynx, however, had remained perfectly normal. The submaxillary tumor continued to grow and death occurred from hemorrhage of the carotid artery. Ed.

856

Gold Cantharidin and Tuberculosis, With Especial Reference to Laryngeal Tuberculosis. G. SPIESS and A. FELDT, *Deut. med. Woch.*, March 19, 1914.

The authors have found that when combinations of gold cyanid and cantharidin are injected intravenously in a 2.5 per cent aqueous solution very encouraging results were obtained. Their experiences cover one hundred cases of localized tuberculosis, i. e., skin and laryngeal, and the action somewhat resembles that of tuberculin. The local reaction is especially marked after the first injection. The initial dose for adults is 0.025 gm., the maximal dose for women 0.075 gm. and for stronger persons 1.0 gm. Ed.

861

Intrinsic Cancer of the Larynx; Complete Excision Apparently Affected by Endolaryngeal Operation. ST. C. THOMSON, *Jour. A. M. A.*, Sept. 19, 1914.

In one case Thomson was able to remove the growth with the laryngeal forceps by the natural route. The tumor was examined microscopically and found to be a true epithelioma. At the subsequent operation, about one month and a half later, operating from the outside, no trace of the cancer was found remaining. The instructive conclusions that are drawn by Thomson from this case are: (1) Cancer of the vocal cords is, in its early stages, a slowly progressive and strictly limited process. Alteration of voice may be the only symptom. Persistent hoarseness in any patient calls for a definite diagnosis. (2) Diagnosis is based chiefly on inspection of the larynx. Microscopic examination is only available when the growth is superficial and is not an infiltrating one. (3) Even when the growth occupies the entire length of the vocal cord it can sometimes be entirely removed, in early cases, by endolaryngeal operation. This completeness can be ascertained only when by laryngofissure the remains of the vocal cord and adjoining parts have been submitted to microscopic examination. (4) Laryngofissure is the operation of choice in all cases of endolaryngeal cancer. (5) The operation offers the best prospects because the disease remains for some time superficial and limited and laryngofissure is not a dangerous operation. (6) A lasting cure may be obtained in 80 per cent of cases and if patients would present themselves earlier for diagnosis there is no reason why the results should not be more satisfactory.

862

Three Years' Sanatorium Experience of Laryngeal Tuberculosis. ST. C. THOMSON, *Brit. Med. Jour.* Apr. 11, 1914.

Thomson states that in pulmonary tuberculosis the larynx is frequently involved. The total number of cases treated during the period of three years was 178, and more than half of these were improved or arrested. The expectation of life among consumptives is markedly decreased by the complication of laryngeal tuberculosis. It may be present even though the patient's voice is unaltered and he makes no complaint about his throat. The larynx should be carefully inspected in every case of pulmonary tuberculosis. In some cases the larynx improves while the lung gets worse; the reverse is rarely the case. By sanatorium treatment tuberculosis of the larynx may be arrested in 20.7 per cent of cases. The galvanocautery is at present the best means of local treatment. Of the 178 cases it effected a cure in 41.60 per cent of the cases in which it was employed.

Ed.

871

Meltzer Insufflation in Internal Disease. A. A. H. VAN DER BERGH and E. D. WIERSMA, *Nederl. Tijdschr. v. Geneesk.*, Aug. 8, 1914.

Van der Bergh and Wiersma know of few instances in which the Meltzer and Auer method was applied in internal medicine. They report the case of a patient a woman, with a cerebellar tumor which was evidently affecting the respiration center as she suddenly stopped breathing one morn-

ing. Intratracheal insufflation was applied with prompt and striking benefit. It was kept up all day but nevertheless the woman died that evening. In introducing the catheter into the larynx care should be taken that it does not go astray into the esophagus, as the oxygen might injure the lining of the stomach. Ed.

873

Excision of the Vocal Chord for Recurrent Laryngeal Paralysis. VOIS-LAWSKY, *Pennsylvania Med. Jour.*, Nov., 1914.

The bilateral paralysis followed an operation for goiter. After various unsuccessful efforts the larynx was cocaineized with a Jackson bronchoscope and the left vocal cord excised with a Cordes punch. For several days subsequently the patient was intubated. Breathing was made easier and there was improvement in talking. At subsequent examination it was found that a white band of scar tissue had replaced the excised vocal cord and this approximated with the right vocal cord in phonation. Ed.

875

Treatment of Dysphagia in Laryngeal Tuberculosis. WETTERSTAD, *Norsk. Mag. f. Lægevidensk.*, No. 1, 1914.

Wetterstad reviews the various methods available for dysphagia but states that he has obtained the best results with perenural alcohol injections. Ed.

877

Anesthetizing the Larynx. C. YORKE, *Brit. Med. Jour.*, June 13, 1914.

Anesthesia of the larynx by injections of novocain around the laryngeal nerves is of value: (a) When cocaine will not induce complete anesthesia as in inflammatory and highly irritable conditions of the larynx; (b) when deep anesthesia is required such as when the cautery is used; (c) when the patient has an idiosyncrasy to cocaine. Ed.

879

Tuberculous Tracheo-Bronchial Adenopathy in the Adult. L. BERNARD, *Paris Med.*, April 11, 1914.

Leon Bernard asserts that physical signs in tracheobronchial adenopathy in children (paravertebral dullness, bronchial breathing, d'Espine's sign) are rather frequently met with in adults also. X-ray examinations show that the glandular involvement in adults is never more than a minor one. The presence, however, of paravertebral bronchial breathing in adults does not warrant a diagnosis of tuberculous disease of the tracheobronchial lymphatics. Ed.

880

Tracheotomy. CARROLL, *Lancet-Clinic*, Aug. 15, 1914.

Carroll prefers the high site of operation because the cases which he reports were of laryngeal diphtheria in which previous intubation had failed and the membrane was already located in the trachea. In the high site the intervening tissues are fewest in number, the chance of severe hemorrhage is less and the landmarks are evident. Dissection is preferable to stab tracheotomy. Tracheotomy is indicated when an in-

tubation or an extubation fails to produce relief. Serum treatment should not be depended upon too much and tracheotomy put off too long. The most important part of the after-treatment is stimulation. Ed.

882

Broncho-Tetany in Adults and Its Treatment with Calcium H. CURSCHMANN, *Muench. med. Woch.*, Feb. 10, 1914.

Curschmann called attention some years ago to the connection between asthma and other symptoms suggesting vagus and sympathetic disturbances and he classified the syndrome as *intermittent Basedow-asthma*. Further study of such cases revealed signs of tetany, especially the Chvostek sign, after the attack in some of the cases. In one case in which the observations were very detailed calcium chlorid treatment cured the tendency to asthma and with it all the signs of tetany. The same success was obtained with the other patients. This confirms the view that the same irritation producing the asthma acts on the other organs innervated by the vegetative system and thus on the thyroid, stimulating this organ to periodic hypersecretion. On the other hand the stimulation may affect the parathyroids most in which event bronchotetany would be the chief manifestation. Epinephrin would be contraindicated in bronchotetany as it tends to increase the symptoms of tetany. Ed.

889

Thymectomy for Tracheo-Stenosis Thymica. A. FISCHER, *Muench. med. Woch.*, Vol. 61, 1914.

Fischer considers that this is a condition in which the trachea is compressed by the hyperplastic thymus. The operation of choice for the removal of the condition is partial intracapsular thymectomy with thyropexy. He reports the case of a 2-year-old child in which he performed this operation. After exposing the thymus, he opened the capsule, resected a portion of the gland, inserted a cannula into the trachea to prevent its collapse and sewed the anterior wall of the capsule to the periosteum of the sternum. Improvement in the breathing was immediate and the eczema and enlarged submaxillary glands present before the operation disappeared about the tenth day after the operation. Ed.

893

Foreign Bodies in the Air Passages. R. J. GODLEE, *Can. Pract. and Rev.*, Jan., 1914.

A man, 65 years old, inhaled a green pea, and upon bronchoscopic examination it was found that this was lodged firmly impacted in the right bronchus. As disintegration of the pea seemed likely if it were seized with forceps with probable septic pneumonia resulting from the penetration of the fragments into the smaller bronchi it was removed in the following way: The end of the bronchoscope tube was placed firmly against the pea and a piston of cotton wool, moistened with liquid paraffin, was passed slowly down the tube until it came in contact with the pea. The piston was then slightly but suddenly withdrawn so that the pea was sucked into the lower end of the tube. The piston, pea and bronchoscope were then withdrawn together. Ed.

896

Intra-Bronchial Injections of Medicated Oil in Treatment of Gangrene of the Lungs. G. GUISEZ, *Bull. de l'Acad. de Med.*, March 31, 1914.

Ten patients treated by the author by the injection of about 20-25 c. c. of medicated oil directly in a bronchus, were cured. The patients had single or double gangrene with fever and extreme prostration. Others have confirmed this almost specific action in gangrene but tuberculosis is more refractory. He used among other drugs a 5 or 10 per cent. solution of guaiacol in oil.

Ed.

924

Tracheo-Cricostomy. SARGNON, *Lyon med.*, April 19, 1914.

Tracheocricostomy is indicated in all stenoses which do not extend up to the thyroid cartilage in which the more commonly employed complete tracheolaryngostomy is indicated. After tracheocricostomy there is much less trouble from local infection extending from the mouth. Healing takes place more rapidly because the dressing is firmly held and need not be replaced for some days. The voice also returns more quickly than after tracheolaryngostomy; in the latter condition this may take months. The wound is smaller, too. Segmental resection of the narrowed cricoid ring may be substituted or combined with tracheocricostomy.

Ed.

961

Removal of Foreign Bodies from Esophagus and Lower Air Passages in Children. D. C. GREENE and F. E. GARLAND, *Boston Med. and Surg. Jour.*, p. 518, April 2, 1914.

The authors report on twenty cases of foreign bodies removed by them from the esophagus and lower air passages by endoscopy, at the Boston Children's Hospital during the past five years. A successful result attended all but two of the cases.

General anesthesia, together with local anesthesia if the larynx be entered, was safe and preferable. Jackson's 7 mm. tubes were small enough to permit exploration of the main bronchi in the youngest children. On account of the greater field for instrumentation Mosher's open speculum has proved the best in laryngeal work, and his oval esophagoscope is preferable in the esophageal work; while Coolidge's forceps are the most satisfactory in grasping foreign body.

BERRY (MOSHER.)

964

Esophageal Intubation. GUISEZ, *Presse medicale*, Jan. 31, 1914.

Guisez introduces specially devised rubber tubes into the lumen of the esophagus. The tubes are five or six centimeters long, of graduated diameters, with the upper extremity funnel-shaped, the lower pyramidal. The lower end is open for the passage of food beyond the stenosis. The tube is introduced in the following way: The dilated portion of the esophagus above the stenosis is first irrigated to reduce local inflammation. The throat is anesthetized and relaxed with 5 per cent cocaine solution and an an esophagoscope broad enough to allow the introduction of the tube as far as the stenosis is introduced. The remaining small esophageal passage is anesthetized and cautiously dilated with bougies of increasing

size. A bougie may be left in for hours. Finally an intubation tube, slightly smaller in caliber than the last bougie is lubricated and introduced. Five or six days later a broader tube is inserted and still later broader ones, until No. 28 or 30 is reached. With this number soups will pass easily. The tubes are cleansed from time to time and may be carried indefinitely.

The author's results have been so good, especially in cancer, that gastrostomy has been reduced to an extremely small number of cases. Ed.

967

Foreign Bodies in the Esophagus or Air Passages of Young Children.

GUISEZ, *Bull. de la Soc. de Ped.*, March, 1914.

Guisez reports eleven cases and emphasizes the difficulty of determining whether the foreign body is in the esophagus or in the trachea because of the fact that spasm of the glottis frequently complicates the picture. In three of his cases, in which this occurred, the children coughed and seemed to be suffocating. In one of the cases tracheotomy was done, but the safety pin was not found. It was voided later with the stools.

At first the cough and dyspnea are instructive. Later the air passages become tolerant of the foreign body. Guisez believes that many children die from the effects of an aspirated foreign body when the trouble is diagnosed as bronchitis or pneumonia. In one case a child coughed up a fish scale which had been the unsuspected cause of an attack of bronchitis lasting four months. Guisez reports another instance in which it was known that the child swallowed a foreign body, but it was believed that it would be passed by the bowel. The child coughed, and several physicians suspected tuberculosis, but after eighteen months the child coughed up the foreign body and the lung trouble ceased. Ed.

971

Plastic Operations on the Esophagus. A. JIANU, *Deut. Ztschr. f. Chir.*, p. 397, Oct., 1914.

In two further cases Jianu has applied his method of making a new esophagus out of a strip of tissue cut from the greater curvature of the stomach and brought up under the skin of the chest to form a tube opening into the stomach. Ed.

976

Radium Treatment of Carcinoma of the Esophagus and Cardia. C.

LEWIN, *Therap. d. Gegenw.*, Vol. 4, p. 103, 1914.

Lewin has had more or less favorable results in 25 cases, except in a few that were hopeless from the start. One case was completely cured, from a clinical point of view, after five months' treatment. The radium or mesothorium was placed in a gold or platinum filter, covered with a hard rubber cover and introduced by means of a hollow sound. The amount used was from 50-80 mg. and left in position for two to four hours. The treatment was given two or three times a week for about five weeks and was combined with external treatment with X-rays or radium and sometimes with injections of atoxyl. Ed.

983

Extra-Thoracic and Intra-Thoracic Esophagoplasty in Resection of the Thoracic Portion of the Esophagus for Cancer. WILLY MEYER, *Journal of the A. M. A.*, p. 100, Jan. 10, 1914.

Willy Meyer describes the technique of the Jlanu operation, which utilizes the major curvature of the stomach for the creation of a tube, one end of which remains in connection with the gastric fundus while the other end can be drawn up. In three patients on whom Meyer performed this operation the results were successful. The operation creates a new tube of ample size, surrounded by peritoneum and provided with a good lumen through which the patient will be able to pass his food. Meyer describes in detail the operation of extra-thoracic esophagoplasty in which the tube is transposed under the skin of the thorax, and the operation of intra-thoracic esophagoplasty in which it is pulled up into the pleural cavity through a hole in the diaphragm. Ed.

998

Corps Etrangers du Tube Digestif. ST. PIERRE, *L'union Medicale du Canada*, Dec., 1914.

The case referred to, a little girl, aged 3, was suffering from pains in the rectum. On inquiry it was learned that when the child was 8 days old, it had swallowed an open safety pin. The child suffered for some minutes, spat up a little blood, and had no further trouble. The surgeon found the pin fixed in the lateral right side of the rectum with its point buried in the mucous membrane. The author reviewed at some length the subject of foreign bodies in the alimentary canal as suggested by this case. In the esophagus, there are three narrow points, the junction of the pharynx and esophagus, behind the fork of the sternum, and the cardiac end. The measurement of the esophagus is usually 15 m. m. in diameter, but a cylindrical body of 18 to 19 m. m. in diameter, may pass without much difficulty. The esophagus is very tolerant of pieces of money. Coins have remained in the tube without any accident for fifteen days, six months, and over three years. Ulceration of the mucous membrane results from pressure, and in some cases, comes on very rapidly. A 5 centime piece caused perforation within twenty-four hours. Radiography will not always reveal the presence of foreign bodies. WISHART.

999

Technical Points for Plastic Operations on the Esophagus. SYRING, *Deut. Ztschr. f. Chir.*, Vol. 128, Nos. 3-4, 1914.

The author reports the case of a girl, 22 years old, on whom a plastic operation for stricture of the esophagus was performed. The stricture was caused by silver nitrate corrosion.

A loop of jejunum was used, beginning about 35 cm. below the jejunoduodenal fold. About 20 cm. of the jejunum was freed of its mesentery, resected transversely at the lower end, drawn up through a slit in the mesocolon and the upper opening sutured into the skin of the thorax so that the motion was antiperistaltic. The esophagus was connected with the stomach by anastomosis and then a lateral anastomosis made between the transplanted loop and the distal end of the jejunum which had been closed. The transplanted loop was narrowed by the

torsion of silk sutures around it. The loop, which opened at the level of the nipples, remained well nourished but the upward peristalsis soon proved disastrous. Food given through a Witzel fistula, that had been established before the operation, was rejected a short time after being given through the upper opening. An attempt to prevent this was made, first by sectioning the transplanted loop between the anastomosis, in order to prevent regurgitation from the duodenum, and later by separating the mesentery, still attached to the loop, in order to cut off nervous influences. These attempts were unsuccessful and the patient died of intercurrent tuberculosis.

In Roux's method the loop is placed in such a position that peristalsis takes place in the normal direction. As it was believed that the direction of peristalsis was of no significance and that peristalsis gradually stopped the antiperistaltic action was deliberately chosen, especially also since it was more convenient. But the case in this report shows that this idea is misleading and dangerous. Syring believes that the autonomous system of ganglia in the intestinal wall determines the intestinal movements—as this case tends to show.

In discussing the Jianu operation of forming a tube from the greater curvature of the stomach Syring believes, from his experiments on seven dogs, that the method is not without danger, although it is not difficult to perform. At any rate, Meyer's suggestion should be followed to scarify the serous coat at the point of its entrance into the stomach in order to cut off the nerve conduction to the tube as much as possible. The communication between the tube and stomach should be made as small as possible (by torsion of the tube according to Gevsuny's method) in order to make the regurgitation of contents from the stomach into the tube difficult. He also recommends atropine and papaverine to decrease vagotonus.

Ed.

1002

Restoration of or Substitution for the Esophagus.

V. VON HACKER,

Arch. f. Klin. Chir., Oct., 1914.

In a girl, twelve years of age, who suffered an impassable corrosion of the esophagus from drinking lye the operation that von Hacker planned was to take a segment of the transverse colon and implant it in the lesser curvature of the stomach and bring the other end up under the skin nearly to the clavicle. The esophagus was severed above the stenosis and the proximal stump brought out through a transverse incision in the neck and worked down under the skin and sutured to the upper end of the colon segment. The operation proved entirely successful.

Ed.

1008

Rare Disease of the Esophagus. E. WOECHLIN, *Korrespond. Bl. f. Schweizer Aerzte*, Aug. 20, 1914.

Woechlin reports a case in which the superficial lining of the esophageal mucous membrane was cast off *en masse* during vomiting. He names this disease *esophagitis dissecans superficialis*.

Ed.

1104

Diphtheria Bacilli May Penetrate All the Organs. LIEDTKE and VOELCKEL, *Deutsche med. Woch.*, March 19, 1915.

Liedtke and Voelckel point out the fallacy of the view that diphtheria bacilli possesses little or no ability to invade animal organs. The bacilli do not all escape by the urine for many may enter the viscera. There is reason to believe that there is visceral invasion in the more severe cases of the disease. It is therefore a question if many "mixed septic cases" with invasion of the tissues by pyogenic cocci are not in reality cases of severe uncomplicated diphtheria. The organs found to contain diphtheria bacilli are the heart, lungs, liver, spleen and bone marrow. Ed.

1110

Treatment of Diphtheria Carriers. H. R. MILLER, *Med. Rec.*, July 25, 1915.

The author has found the following method highly successful: The patient's throat is thoroughly sprayed, one hour before or at least two hours after the ingestion of food or fluid, with a solution of one per cent of the usual forty per cent formaldehyde solution. The spray is used every three or four hours and treatment for from three to six days may be required. Ed.

1113

Lactic Acid Bacilli in Diphtheria. S. T. NICHOLSON and J. F. HOGAN, *Jour. Amer. Med. Ass'n.*, Feb. 14, 1914.

The authors tried this treatment in nine cases, and the results obtained were exceedingly encouraging and better, they claim, than from any other method used. Cultures from live lactic acid (Bulgarian) bacilli were sprayed into nose and throat and in a few cases ordinary sour milk was used as a gargle also. Ed.

1114

Active Immunization in Diphtheria. PARK, ZINGER and SEROTA, *Jour. Amer. Med. Assn.*, Sept. 5, 1914.

The authors describe their method as follows: "Mixtures of diphtheria toxin and antitoxin were prepared, either neutral or slightly toxic to the guinea-pig. A strong diphtheria toxin was used where the minimum lethal dose was 0.0023 cc. and L+ dose, 0.27 cc. The mixtures represented B, 50 per cent; A, 66 per cent; G, 66 per cent; F, 80 per cent, and E, 90 per cent. L+ toxin to each unit of antitoxin. The injections were made subcutaneously or intramuscularly in doses of from 0.25 to 1 cc. of undiluted vaccine. A few of the non-immune persons received as high as from 3-5 cc. at each injection and the dose was repeated two or three times at intervals of three to seven days. The injections were made in the intrascapular region and the local reaction of redness, induration and pain varied according to individual susceptibility."

The active immunization was controlled by determining the antitoxin content before the injection and again three weeks later. They found that persons with natural antitoxin gave a ready response to active immunization. Their year's experience assures the authors that persons with a negative Schick test can be safely exposed to diphtheria. Those

exposed to infection should be passively immunized but the use of the Schick test will obviate the necessity of immunizing about two-thirds of those subjected to exposure. The persons found to be naturally immune continue as a rule to remain so.

Ed.

1118

Effectual Inoculation Against Diphtheria. P. ROHMER, *Berl. klin. Woch.*, July 20, 1914.

It is possible to give the strongest preparation of the mixture of diphtheria toxin and antitoxin (TA. VI) to infants without unfavorable reaction. One-tenth of one cc. was chosen as the amount to be injected; in each case dilutions varying from 1:20 to 1:5 were injected. The dose was increased at each subsequent injection.

In infants under four or five months of age the injections failed to increase the antitoxin content of the serum, while in all above this age there was an increase, marked in some cases. The most marked reactions are specific, the reactions of the second and third order, doubtfully so.

Ed.

1126

Active Immunization Against Diphtheria. E. SCHREIBER, *Therap. d. Gegenw.*, March, 1914.

Schreiber has applied Behring's method of immunization against diphtheria to more than 700 school children and he finds that the intracutaneous seems the best route for the injection. As the vaccine is a mixture of toxin and antitoxin it contains only small traces of albumin so that there is little danger of anaphylaxis from its use. No untoward by-effects were noted in any instance except a local reaction to the injection at times. Younger children and infants give less reaction than older. Some children respond to the injection with remarkable production of antibodies; in a few instances there seemed to be no response. Everything points to the assumption that a liberal production of antibodies protects against diphtheritic infection.

Ed.

1159

Relation of Pathologic Conditions in the Nose and Throat to Hyperthyroidism. S. P. BEEBE, *Jour. A. M. A.*, Aug. 29, 1914.

Beebe considers the relation of thyroid disease to previous infections. Hyperthyroidism is, in many patients, the termination of an infection which has begun in the tonsils and Beebe says that he has not seen a necropsy in these cases which did not show the characteristic pathology of status lymphaticus. A large percentage of patients with exophthalmic goiter have enlarged tonsils and adenoids and give a history of repeated attacks of acute tonsillitis. Nose and throat infections are undoubtedly the commonest to which man is subject and if one is so disposed to so many of our ills may be credited to them. It is not rare to find, however, that rapid enlargement of the thyroid with characteristic symptoms of hyper-activity has immediately followed a severe tonsillar infection.

Ed.

1179

Chronic Malignant Degeneration of the Thyroid.

F. A. CARMICHAEL,

Jour. Amer. Med. Assn., Jan. 3, 1914.

Patient 50 years old and had noticed the growth since he was 15 years old. Until a few years ago it did not grow any larger than a walnut; then it began to rapidly increase in size so that finally it had to be suspended from the neck in a large handkerchief. The entire right lobe, isthmus and most of the left lobe were removed but within a week the left lobe was enlarged and within six months a metastatic growth appeared on the sternum.

Sarcomatous changes in the thyroid follow the same course as in other organs. Adenocarcinomatous changes seem to follow an extremely chronic course and are very insidious in their development. Ed.

1188

Diarrhea of Thyroid Origin. H. CURSCHMANN, *Arch. f. Verdauungskrankh.*, Feb., 1914.

Curschmann explains why surgeons encounter diarrhea in nearly 50 per cent of their cases, as due to the fact that they see the advanced cases only in which diarrhea is frequent and adds to the seriousness of the prognosis. Important symptoms in diagnosis are the Loewi test (midriasis on the instillation of epinephrin in the eye) and a lymphocytosis in the blood which Kocher regards as pathognomonic; but these are only links in a chain of symptoms. The connection between the pancreas and thyroid suggests that pancreatic extract might be tried in cases of diarrhea of thyroid origin and may render thyroid resection unnecessary. In conclusion, Curschmann warns that all cases of obstinate "nervous" diarrhea even in the absence of other symptoms of thyroid disturbance, be regarded as being of thyroid origin. Ed.

1214

Operative Treatment of Exophthalmic Goiter. D. GLASERFELD, *Mitt. a. d. Grenzgeb. d. Med. und Chir.*, V. 18, No. 1, 1914.

Glaserfeld has compiled from the literature 2,032 operations on the thyroid, with a mortality of 5.4 per cent. The percentage, however, is growing constantly less with improved technic and a better understanding of the contraindications. Of 534 cases, 349 of the patients regard themselves as cured and 88 very much, and 41 considerably improved. The operation was a failure in only 31 and there had been a recurrence in 25. In later series the cured and improved reach 73 to 90 per cent. The only way to estimate the value of operative treatment is to have internists and neurologists make systematic after-examinations from a uniform standpoint. Ed.

1218

Lack of or Excess of Iodin as a Factor in Thyroid Disease. GRUMME, *Berl. klin. Woch.*, April 20, 1914.

Grumme presents arguments to sustain the view that a lack of metabolized iodine is the cause of myxedema, while exophthalmic goiter is the result of an excess of non-metabolized iodine. In other words, the primary cause of myxedema is a deficiency of iodine in the food,

while the cause of exophthalmic goiter is a functionally weak thyroid with a sufficiency or an excess of iodine in the food. Experience has already demonstrated that cretinism myxedema and endemic goiter are favorably influenced by the administration of thyroid extract. Iodine in any form, organic or inorganic, or food containing iodine, is distinctly injurious in exophthalmic goiter and also in ordinary goiter not of the endemic type. Endemic goiter may be treated with benefit with iodine but it is contra-indicated in the sporadic form. Ed.

1224

Significance of the Thymus in Exophthalmic Goiter. W. S. HALSTED.

Bull. Johns Hopkins Hosp., Aug., 1914.

Of late Halsted has made it a rule to examine the contents of the space between the trachea and the manubrium for the purpose of discovering the possible presence of an enlarged thymus gland. In two cases did he find the thymus enlarged and in these the thymus symptoms predominated (attacks of dyspnea, diarrhea, no tachycardia or marked enlargement of the thyroid and no very definite eye symptoms. That the thymus plays an important part in Graves' disease there is no question. Some of the most puzzling features of exophthalmic goiter are made possible of interpretation by the discovery of the influence which the thymus may exert. Ed.

1247

Iodine and Exophthalmic Goiter. A. KEMPNER, *Centralbl. f. d. Grenzgeb. d. Med. u. Chir.*, July, 1914.

The administration of small doses of iodids for arteriosclerosis, tabes or suspected tumor in the brain may elicit symptoms of Basedow's disease in persons with a goiter. True Basedow may also develop from an acute thyroiditis. Kempner warns that a family predisposition to goiter, Basedow and aneurysm of the aorta is sometimes evident and calls for special precaution in giving iodine.

1250

Operative Treatment of Exophthalmic Goiter. H. KLOSE, *Berl. klin. Woch.*, Jan. 5, 1914.

Klose believes that in perhaps every case of Graves' disease there is also some involvement of the thymus because Graves' disease is one of the entire branchial system. The degree to which either the thymus or the thyroid glands are involved is variable, although in the majority of cases the essential process is one of thyroid origin in which the thymus is only quantitatively affected. It recovers its normal condition spontaneously after reduction of the thyroid by operation. In other cases both glands are involved, in a specific sense, though the glands themselves need not necessarily be enlarged. This type of thymus is one of the most dangerous for the individual because of its toxic action upon the heart. In some of the severest cases of this type Klose finds the thyroid is infiltrated with tissue of a thymus nature, and he speaks of a "thymization" of the thyroid. It may also be shown experimentally that such thymus glands are more toxic for animals than normal ones. In still another group of cases the essential process is limited to the thymus with practically no involvement of the thyroid.

The procedure in therapy is to be recommended in these cases as in the thyroid group—operative removal of the thymus. While it is difficult to diagnose qualitative involvement of the thymus in Graves' disease, certain criteria are of some help. These criteria are widening of the shadow in the x-ray picture of the mediastinum, the finding of myasthenia in testing the muscles with electricity and the predominance of vagotonic symptoms with unusually high absolute values for the lymphocytes in the blood.

There have been no fatalities in 200 operations for thymus extirpation during the last two years. The rapid improvement in the general condition of the patients and the very slight post-operative reactions have been very striking. Ed.

1251

Exophthalmic Goiter and the Thymus. A. KOCHER, *Arch. f. klin. Chir.*, Oct., 1914.

Kocher believes that hyperplasia of the thymus is more frequent in younger Basedow patients. In fourteen cases coming to autopsy no special histologic findings in the thymus were discovered. Ed.

1253

Cancer of the Thyroid. X. W. KOVARSKY, *Rev. med. de la Suisse rom.*, Jan. 20, 1914.

Kovarsky gives the case histories of most of thirty-three cases of cancer of the thyroid. No constant connection could be discovered between the type of the cancer and its clinical course. Nine of the sixteen patients with epithelioma were men and two of the five with sarcoma.

As a rule the malignant tumor of the thyroid develops insidiously and a year or more may elapse before the tumor begins to cause inconvenience. Then it begins to grow rapidly and interferes with speech and swallowing.

Metastasis in various organs is frequent but Kovarsky found only one instance of a metastasis in bone. Ed.

1302

Treatment of Exophthalmic Goiter. K. PETREN, *Hygica*, V. 76, No. 18, 1914.

Petren discusses the indications in exophthalmic goiter that call for surgical treatment and concludes that the cardiac symptoms are the important indications. The extreme tachycardia is a futile waste of energy and a source of permanent injury. The palpitation and the excessive cardiac action lead to compensatory hypertrophy and dilatation and may finally wear out the heart from overstimulation of the sympathetic from the hyperthyroidism. It is on this element of the clinical picture of Basedow's disease that the author bases his decision whether to operate or not. Operation should be undertaken if the heart is already enlarged and does not subside under medical treatment or the cardiac symptoms show no marked improvement. Ed.

1326

Roentgen Exposure of the Thymus in the Treatment of Exophthalmic Goiter. S. M. SINOZERSKY, *Russky Vrach*, July 4, 1914.

Sinozersky studied on twenty patients with exophthalmic goiter the role played in its production by the thymus gland. Some were given Roentgen treatment of the thymus after two or three thyroid vessels had been ligated, but the majority had this treatment before any operative measures. The condition of the thymus was estimated by dullness on percussion over the sternum and to the left, after a tumor or aneurysm had been excluded by x-ray examination and by blood examination (lymphocytosis) and reduced polynuclears.

Experiments on puppies and rabbits showed that exposure to x-rays caused atrophy of the thymus. Roentgen treatment of Basedow's disease directed against the thymus, with exposures every three or four days, gave marked improvement after five or six sittings. The pulse fell from 120-140 to 80; the goiter, sweating, exophthalmos and nervousness decreased and the blood showed a decrease in the number of lymphocytes and an increase in the polynuclears. Owing to the sensitiveness of the skin in Basedow's disease to the x-rays, an interval of about three weeks is required before undertaking another series of treatments. Ed.

1334

Roentgen Treatment of Exophthalmic Goiter. R. SIELMANN, *Muench. med. Woch.*, Oct. 27, 1914.

Very beneficial results were observed in all of twenty-one cases treated. Sielmann urges it as a routine treatment in all cases before surgical intervention is undertaken. Ed.

1335

The Thymus in Thyroid Disease. M. SIMMONDS, *Zentralbl. f. Chir.*, March 1914.

Simmonds' article is based on necropsy findings in ten cases of exophthalmic goiter and two of thyroidism and on the operative findings in eight cases of Basedow's disease and fourteen of thyroidism. He found the thymus enlarged in 75 per cent of all cases of exophthalmic goiter. In all cases of operation on the thyroid the thymus should be scraped and subjected to microscopic examination in order to determine if the structure corresponds to that of a younger age or whether there is marked proliferation of the medullary substance. Ed.

1346

Acute Thyroiditis as a Complication of Acute Tonsillitis. C. F. THIESEN, *Ann. of Otol.*, March, 1914.

Thiesen reports the histories of seven cases in which acute non-suppurative thyroiditis developed in a previously healthy gland of normal size either following or during an attack of tonsillitis.

The acute condition subsided under treatment in about ten days but two cases after repeated acute attacks developed well-marked goiter, and two cases developed hyperthyroidism. Ed.

1355

Thyroid and Parathyroid Grafts. A. VON EISELSBERG, *Arch. f. klin. Chir.*, V. 106, No. 1, 1914.

The author reports disappointing results for the reason that sooner or later the implanted gland tissue becomes absorbed. Temporary benefit was, however, observed in a few cases. The improvement may be marked at first but then it dies out. Parathyroid grafting is not always feasible because the donor can seldom spare enough parathyroid tissue for the purpose. Ed.

1356

Resection of the Thymus for Simple and Exophthalmic Goiter. H. VON HABERER, *Arch. f. klin. Chir.*, Aug., 1914.

Haberer has resected the thymus in twenty-one cases. In all but two cases the thyroid was resected also. The post-operative improvement in the exophthalmic goiter cases was very striking and justifies, in the author's opinion, reduction of the thymus whenever it is found to be unduly large at operation on the thyroid. A combined partial operation on both the thyroid and the thymus gives better results than on either alone. Reduction of the thymus is not followed by any untoward effects on the growing organism. Ed.

1381

Circumscribed Otitis Externa Simulating Mastoiditis. BOTELLA, *Arch. internat. de Laryngol.*, May-June, 1914.

Botella distinguishes between circumscribed inflammation of the external auditory canal and furunculosis. The latter is confined to a hair follicle and its immediate vicinity. The dermatitis may extend to the postaural space and involve the subcutaneous tissue, the medium of communication between the external canal and the skin of the mastoid region. The resulting edema, tenderness, fluctuation and local abscess are all suggestive of the presence of seep suppuraton. In circumscribed inflammation of the canal the pain is superficial and increased by moving the auricle; pressure in the mastoid region, provided the auricle is not touched, does not elicit pain. Then, also, the swelling, redness and tension in the canal is limited to the cartilaginous portion; the dermoid surface of the bony portion of the canal is only implicated secondarily. In mastoiditis the pain is more constant, deep-seated and the congestion is principally upon the posterior superior wall. Ed.

1395

Pathogenesis of Tuberculosis of the Middle Ear. B. AGAZZI, *Monatschr. f. Ohrenhk.*, H. 5, V. 48, 1914.

Agazzi reports six cases of middle-ear tuberculosis discovered at autopsy in children six weeks, eight and eighteen months, four, five and five and one-half years, respectively, old. In five of the cases there was tuberculosis of the lungs which rapidly spread into a miliary tuberculosis. There were also some bone lesions. The middle-ear tuberculosis was possibly of hematogenous origin. In the sixth case the primary tubercular focus was in the parotid gland with involvement of the lower jaw. The Eustachian tube and the naso-pharynx were not involved, but the antrum,

mastoid cells and tympanic cavity were almost completely destroyed by the caseous tuberculosis. In this case the author believes that the involvement of the middle-ear was direct, perhaps helped along by the lymph stream.

Ed.

1414

Treatment of Chronic Suppurative Otitis Media with Lactic Acid.

EITELBERG, *Wiener med. Woch.*, No. 22, 1914.

Eitelberg recommends the lactic acid treatment in chronic middle-ear disease, especially in those cases where there is a tendency to polypus proliferation. The effect is very rapid. There is very little pain and no untowards by-effects. Even if there be a little pain it is momentary. The ear is first irrigated and dried. The lactic acid is applied, diluted with an equal part of water, to the diseased part of the ear by means of a swab (in some cases the ear may be irrigated with the solution) and retained there for about three minutes. The ear is then dried and boric acid powder blown in. The external canal is then stuffed with cotton. The applications are made three times a week. In the intervening periods the ear is left alone.

Eitelberg reports a number of case-histories showing the value of the treatment and also two cases in which it was unsuccessful.

Ed.

1433

Conservative Treatment of Chronic Aural Suppuration.

ROBERT L.

LOUGHRAN, *N. Y. State Med. Jour.*, Feb., 1914.

The most frequent causes of failure in resolution in acute inflammations of the middle-ear, which is the forerunner of the chronic type, are: (1) Insufficient treatment during the acute stage. (2) Failure to recognize the fact that the mastoid antrum also was involved. (3) The existence of some secondary focus of re-infection after the acute stage had subsided. (4) Some constitutional factor which interfered with the physiological repair (tuberculosis, syphilis, etc.). Drainage is the keynote in the treatment of the acute inflammatory otitis with exudation; cleanliness and astringents act satisfactorily in the great majority of cases.

When the affection has assumed a chronic character, attention to diseased areas in the middle-ear and removal of granulations, polypi, etc., are sometimes effective. Ossiculectomy has now become comparatively rare and should only be attempted in those cases where the lesion is confined to the ossicles. Three cases of facial paralysis have come under the author's observation following curettage of the posterior wall of the middle-ear after removal of the ossicles. Obliteration of the Eustachian opening (Yankauer) is most successful where the perforation of the membrane is large and the mucous membrane is atrophic. When the disease is confined to the soft tissues, autogenous vaccine is of value. Conservative treatment is indicated in mild cases with localized necrotic areas, where the damage to hearing is not pronounced. With extensive involvement and decided deafness, some radical intervention is indicated.

LEDERMAN.

1444**Blood Examination in Acute Otitis Media Especially in the Early Stages.**M. WEINBERG, *Ztschr. f. Ohrenhk.*, Bd. 71, H. 3-4, 1914.

The purpose of Weinberg's investigation was to determine if by an examination of the blood the character of an acute otitis media could be ascertained—whether it came about through infection of the Eustachian tube or whether it were of hematogenous origin. The number of patients investigated was thirty-six. Cultures were made from the blood and the bacteria from the ear also grown. The results agreed with those of Libmann and Cellar, that in acute otitis without complications (meningitis or sinus thrombosis), whether accompanied by general symptoms or not, there is no bacteriemia. Otitis media of hematogenous origin cannot be distinguished by blood cultures from that of any other origin.

Further, if we accept from 5000-10000 leucocytes per cm. as normal, a leucocytosis was present in 22 out of 32 cases thus examined, with a hypernormal value for the polynuclear cells in 19 cases (taking 65-70 per cent as normal). The greatest leucocyte count observed was 22000 and the polynuclears were 88 per cent. The leucocytosis in acute otitis is purely an inflammatory one and gives no indication as to the degree of the infection.

Ed.

1461**Vestibular Apparatus of the Ear in Acute Alcoholic Intoxication and in the Course of Delirium Tremens.**BARANY and ROTHFELD, *Presse oto-laryngol.*, Belge, May-June, 1914.

The authors report their experiments in six cases of acute intoxication and in 30 cases of delirium tremens. In both conditions there is a series of common symptoms although some of the symptoms in acute alcoholism, such as nystagmus and rapid movements of the head, are only found in delirium tremens. In other cases there is notably complete absence of nausea which is, however, very marked in acute alcoholism. The authors believe that the disturbances of equilibrium met with in acute alcoholism and in delirium tremens have their seat in the cerebral cortex where a change occurs in the transmission apparatus.

Ed.

1476**Pathogenesis and Treatment of Otosclerosis.**A. DENKER, *Deut. med. Woch.*, May 7, 1914.

Denker does not recommend all the mechanical and local operative measures that have been applied to cure otosclerosis because the results are very poor and an aggravation of the condition is a great possibility. Politzer advises one gram of potassium iodid daily for ten or fifteen days, repeating this four or five times a year. Some have reported benefit from thyroid treatment. Denker has found phosphorus, alone or in combination with bromid, useful. The progress of the deafness was often arrested and the subjective tinnitus subsided. Patients with otosclerosis should be urged to take a course in lip-reading before the hearing is entirely lost. Prophylaxis is of the utmost importance in otosclerosis. It has a pronounced familial or hereditary tendency and is liable to increase in severity during period of more active bone growth such as at

puberty and during pregnancy. Contributory causes are circulatory derangement, arteriosclerosis and syphilis. Inter-marriage of persons with a tendency to otosclerosis should be prohibited. The question of avoiding pregnancy should also be considered because of the possible aggravation of the trouble by it. Ed.

1483

Mechanism of Internal Ear Functioning. O. GOEBEL, *Berliner klin. Woch.*, May 11-25, 1914.

From a study of dissections of fresh specimens of the human labyrinth Goebel offers a new theory of the mechanism of its action in sound perception. Owing to the presence of surrounding lymph spaces the osseous plate of the partition wall is easily removable but more so at the apex of the cochlea than at the base. Its return to normal, after displacement, is slower than below. Goebel's view is that the displacement of the osseous and membranous partition wall towards the scala vestibuli leads to the contact of the hair-cell projections with the membrana tectoria, which produces the perception of sound. There is also an interrelation between the mobility of the osseous and membranous portions of the lamina spiralis and a damping action of the endolymph within so that the displacement of different portions of the lamina spiralis will produce different sound waves. Goebel does not believe that the whole lamina and the membrana tectoria fall into oscillations of similar wave length to that of the sound waves causing the stimuli. Ed.

1485

Tuberculosis of the Labyrinth. J. HABERMANN, *Ztschr. f. Ohrenhk.*, Bd. 71, H. 3-4, 1914.

In the case reported by the author the tuberculosis did not involve the labyrinth through the Eustachian tube and the tympanic cavity, but from the cranial cavity. In addition to lung and intestinal tuberculosis there were tubercular infiltration of the right cerebellum, softening of the adjacent part of the cerebrum, dilatation of the ventricle and edema of the brain. In the last days of the disease rather sudden complete loss of hearing set in accompanied by vertigo and nausea. On autopsy, tuberculosis of the right middle-ear was found associated with an exudate in the scala tympani. In the internal ear there was periosteal infiltration and inflammatory exudation between the nerve bundles in the fundus. Miliary tubercles in the ampulla and crista. The same changes, but of a lesser degree, were present on the left side.

Habermann explains the labyrinthine tuberculosis as a result of metastasis from the cerebellum through the lymph channels. Ed.

1495

Examination of the Internal Ear and Hind-Brain by Stimulation of the Vestibular Nerve. T. B. LAYTON, *Clin. Jour.*, V. 43, 1914.

This paper deals with the view of Barany that it is the cerebellum which controls co-ordination and it is stimuli passing to this which govern the pointing and falling reactions. He believes that each set of muscles has a center in the cerebellum. There is some reason to believe that the vermis is associated with movements of the trunk and the hem-

ispheres with those of the limbs. As the central connections of the vestibular nerve are numerous and far-reaching, the author believes the results of the examination of the vestibular nerve is of great value in diagnosis, especially in suspected cerebellar tumor. Ed.

1500

Anomalies of Ossification in the Human Petrous Bone and Their Relation to So-Called Otosclerosis. P. MANASSE, *Arch. f. Ohrenhk.*, Bd. 95, H. 1-2, 1914.

Of two hundred temporal bones examined by Manasse for pathological changes there were found peculiar and uniformly characterized islands of cartilage in the labyrinth capsule in eleven cases. These islands were of rounded or irregular contour, visible to the naked eye, and were situated between the oval window and the middle whorl of the cochlea. They were composed of hyaline multicellular cartilage with occasional transverse fibers. In juxtaposition to these islands, but without genetic relationship, were small areas of new bone with medullary cavities and in the neighborhood of these areas there was, as a rule, atrophy of the membranous labyrinth.

These abnormal changes were found at all ages, from infancy upward. The author is therefore led to regard these changes as due to congenital arrest of development analogous to the changes in *otitis chronica metaplastica* (origin in the labyrinth capsule, the presence of new bone near the islands of cartilage and localized atrophy of the membranous labyrinth). Ed.

1502

New Remedies Against Auditory Disturbances and Tinnitus. PASSOW, *Medizinische Klinik*, No. 18, 1914.

Passow relates his experiences with radium, diathermie, high frequency currents, "re-education of the ear" and salvarsan. With the exception of salvarsan all these remedies are not directed against any definite diseases of the ear but against individual symptoms (tinnitus and difficulty in hearing) which may be caused by the most varied local changes.

With radium and diatherman treatment Passow noticed considerable improvement in one hundred cases so treated. To what extent suggestion played a role in some of them he is unable to estimate, but it was undoubtedly of moment with some of the patients. In those cases in which the deafness was caused by disease of the auditory nerve or by otosclerosis no improvement, objective or subjective, was noticeable.

In most of the cases of tinnitus treatment with high frequency currents produced a decided improvement. It would appear to be a useful method of treatment.

Passow had no success with the Maurice method of "auditory re-education." He is also very skeptical as to the influence of salvarsan. It often produces an aggravation of the auditory symptoms and he, therefore, prefers mercury and potassium iodid in those cases where antisyphilitic treatment is indicated.

1514

Clinical Pathology and Therapy of Subjective Tinnitus. C. STEIN.
Monatschr. f. Ohrenhk., XXVIII, H. 5, 1914.

Stein calls attention to the frequent relationship between subjective tinnitus and diseases of the internal ear, especially of the circulatory apparatus and recommends that in all cases which resist the usual methods of treatment blood pressure readings should be taken. In 500 cases so examined he found high blood pressure in 24.8 per cent and a low blood pressure in 5 per cent. The latter, which plays the less important role, is found in anemic patients; the tinnitus is caused by dilatation of the arteries of the ear or by irritation of the auditory nerve through repeated angiospasm in the vessels of the inner ear.

Rise in blood pressure was the most frequent change observed in the patients and the fundamental condition was arteriosclerosis in 112 cases; tabes, climacteric, Basedow's disease, progressive paralysis and hypertonic polycythemia in 16 cases.

In 265 patients suffering from tinnitus but in whom the blood pressure was normal, 57 had arteriosclerosis, 25 cardio-vascular neuroses and 35 organic cardiac disease.

The treatment will depend upon the fundamental cause and must especially be directed to a lowering of the blood pressure where this is high.

Ed.

1557

The Treatment of Deafness and Tinnitus. J. HEGENER, *Deut. med. Woch.*, Jan. 15, 1914.

Hegener reviews the various methods and appliances that have of late been introduced in the treatment of deafness and tinnitus and concludes that none of them show any improvement over the old and tried methods. Radium and diathermal treatment he does not approve at all because they are too dangerous; they should only be applied by experts and not to the ear until they have been thoroughly tried out on less important organs first.

Ed.

1563

Treatment of Deafness with Sonorous Vibrations by the Zund-Burguet Method. L. M. HUBBY, *Med. Rec.*, Jan. 31, 1914, p. 200.

Hubby has found the Zund-Burguet apparatus very efficient. He finds that the ceruminous secretion becomes more normal. The patency of the Eustachian tube, if it have a tendency to remain closed, increases (provided there is no organic structure) and the condition of the tympanic and Eustachian mucous membrane improves. He has found also that partial ankylosis of the ossicular chain decreases and it may even disappear. Otagia, tinnitus and other symptoms are also improved by this treatment.

Ed.

1564

Sonorous Vibrations in the Treatment of Ear Diseases. L. M. HUBBY, *Jour. A. M. A.*, Dec. 19, 1914.

Hubby has found, from his experiences with this method in the treatment of diseases of the ear, that sonorous vibrations exercise the tympanic

membrane, the ossicles and muscles, the hair cells of the organ of Corti, the membrana tectoria and the entire cochlear nerve system. The efficiency and nutrition of these structures is improved provided the exercise is not overdone so as to cause fatigue. He uses the Zünd-Berguet electrophone with which siren-like scales may be produced in three timbres corresponding to three registers of the human voice—low, medium and high. The intensity of the vibration to each ear can be regulated and the treatment is followed by a short mechanical massage to overcome any slight numbness that may have been produced. The regulation of the intensity of the vibration is very important and must be studied and graded in each case.

In acute and subacute cases tests may have to be made after each treatment; in chronic cases, at the start and after fifteen or thirty treatments. The former require treatment once a day; the latter usually require two treatments a day. A course of treatment usually comprises about fifty sittings, in the chronic cases, of two treatments a day and in most cases a second course of thirty treatments may be necessary six months or one year later. In six cases he has found an increase of audition distance of from 10 to 20 per cent (watch or acoumeter tests).

Ed.

1568

So-Called Re-Education of the Deaf. R. LAKE, *Lancet*, May 23, 1914.

According to the author's experience, re-education is useless in the acquired deafness of adults, of some help in the acquired deafness of childhood when there is no destructive lesion of the internal ear, and of greatest value in congenital deafness, even though it be total.

Ed.

1569

Re-Education of the Ear. E. LAIME, *Ann. des Mal de l'Oreille*, No. 4, 1914.

The methods employed for auditory re-education are divisible into two general groups (1) that dealing with the audition of artificial or mechanically-produced sounds and (2) that availing itself entirely of the sound of the human voice and articulate language. The former method includes a variety of sounds of varying timbre and intensity (tuning-forks, pipes, sirens, whistles and electrical instruments to maintain a continuity of sound). One of the objections to this method is the prevalence of metallic overtones and the injurious effects, as shown by Siebenmann, Hoessli and others, upon the membranous labyrinth of prolonged exposure of the auditory apparatus to tones of this class.

The second method relies upon the instrumentality of the human voice, to the range of which the human ear is especially adjusted. This method may be combined with the visual study of component movements of the lips and face.

Ed.

1615

Local Anesthesia in Operations on the Auditory Apparatus.

RAOUL

ARNAL, *Rev. hebdomadaire de Laryngol.*, March 14, 1914.

Cocain holds the foremost place in local anesthesia of this region, but other drugs such as stovain, alpin, novocain, eucain and holocain may be of benefit in certain cases.

Cocain may be used alone or in combination, for instance, the Bonain solution, consisting of equal parts of cocain hydrochlorate, carbolic acid and menthol. To this formula, five drops of the one to 1-1000 solution of adrenalin may be advantageously added. Instead of the Bonain solution some operators prefer Gray's solution, consisting of cocain hydrochlorate five grams, alcohol and anilin oil each 50 grams. Two drops of adrenalin solution added to one cubic centimeter of this solution tends to "fix the cocain," and, moreover, prevents hemorrhage by its vasoconstricting effect.

The double hydrochlorate of quinin and urea is of special advantage in this connection. According to Hertzler, this drug is absolutely innocuous and the anesthesia persists for four or five days. Hertzler's views are endorsed by Gaudier, but Chavanne maintains that the new anesthetic is not as effective as cocain.

Electrolysis and electro-cocainization have proved effective in the hands of some operators, but the technical difficulties attending the application will prevent it from being more extensively used.

Ethyllic chlorid may be used in operating on the auricle and of the canal, as in furunculosis, exostosis, etc. Koenig's speculum being of special service in such cases.

Arnall believes that local anesthesia is applicable to all operations of the auditory apparatus with the following reservation: There is danger, even fatal, in cocainizing certain patients. Difficulties are met with and the greatest care is required in injections in certain regions. The anesthetic results are sometimes incomplete and insufficient.

Cocain still remains the most practicable anesthetic because it is more constant and energetic in its action, but novocain and stovain may be substituted in certain cases. We should not forget, however, that while novocain is only one-half as active, it is seven times less toxic than cocain and that stovain is a vaso-dilator.

SCHEPPEGRELL.

1625

Otitic Paralysis of the External Oculomotor Nerve Associated with Neuralgia of the Trigemini; Operation and Cure. J. BROECKAERT, *Presse oto-laryngol. Belge*, V. 13, No. 7, 1914.

The author reports the case history of a man, 31 years of age, who had for many years been suffering from left purulent otitis followed by pain, vomiting and nausea associated with facial paralysis and paralysis of the oculomotor nerve. The author describes the operation performed to expose the Gasserian ganglion and discusses the clinical features of the case from which he concludes: (1) abducens paralysis with trigeminal neuralgia in the course of an acute or chronic otitis indicates a lesion corresponding to the petrous portion of the temporal bone either in the form of a circumscribed osteitis or a localized meningitis; (2) the involvement of the Gasserian ganglion always is a serious complication and indicates the necessity of radical operation on the mastoid followed by exploration of the pyramidal petrosal region by the suprapetrosal route. Ed.

1641

Tuberculous Affections of the Ear. THOMAS H. FARRELL, *N. Y. State Med. Jour.*, Feb., 1914.

Tuberculosis of the ear is not infrequent though certain forms are rare, as those involving the external ear. Infection of the middle-ear is much more frequent and occurs most often as a secondary infection in patients with advanced phthisis. Primary tuberculosis of the middle-ear is a rare occurrence, according to most authors. Henrici states that one-fifth of all mastoid cases in children are tubercular. The most common route of infection of the middle-ear is by way of the Eustachian tube. In young children the infection is carried to them by means of handkerchiefs, nipples, and kissing by tuberculous mothers or nurses. Milligan believes that the lymphatic tissue constituting Waldmeyer's ring is a most important portal of entry. An accurate diagnosis should be made early. Lasagna's new method of finding the tubercle bacillus is given in detail. The symptomatology is given, and a rather complete bibliography is offered. The prognosis is more favorable in the primary disease. Attention is directed to (1) its insidious onset; (2) absence of inflammatory reaction; (3) presence of two or more perforations, and early enlargement of peri-auricular glands, etc.

LEDERMAN.

1654

Use of Vaccines in Chronic Ear Suppurations. W. H. HASKINS, *Ann. of Otology*, p. 582, 1914.

Haskins points out that in treating suppurative processes in the ear the ear must be perfectly dry. If patients irrigate their own ears they never dry them perfectly after the irrigation and the presence of moisture will prolong the treatment indefinitely. The use of mercuric chloride is inadvisable because of its irritating property which will keep up the discharge. He has obtained good results with active cultures of the *Bac. bulgaricus*. This promptly overcomes offensive discharges and where the membranes are thickened a few applications of the culture will restore them to a normal color.

Ed.

1658

Aural Complications in Typhoid Fever. E. M. HOLMES, *Ann. of Otol.* p. 555, Sept., 1914.

Lateral sinus thrombosis is a very usual but a very frequently overlooked complication of typhoid fever. It is often mistaken for the fever itself. Hypersensitiveness of the jugular sheath is a valuable though not necessary symptom. Early diagnosis of this complication is extremely important.

Ed.

1716

The Formation of New Bone Following Operations on the Mastoid Process. GUSTAV BONDY, *Monatschr. f. Ohrenh.*, Vol. 48, No. 4, p. 563 1914.

Two kind patients gave the writer the opportunity of studying post-operative mastoid histology. In the one a simple mastoidectomy with exposure of the sinus was followed five months later—the patient died from peritonitis—by a post-mortem histological examination of the opera-

tive field. The operative cavity was found to be divided into small spaces by numerous septa of connective tissue showing ossification in some places. In the osseous cavity tissues of similar structure are surrounding a mass of newly-formed bone. Right beneath the scar a strip of newly-formed bone is seen with a margin of osteoblasts around a chalkless zone. There are no lamellae present, the bone corpuscles are clumsy and irregularly distributed.

In the other patient the writer was enabled to demonstrate the formation of new bone *in vivo*. Six years after a simple mastoidectomy a relapse of the primary condition necessitated another operation. Thereby the mastoid cavity was found to be filled out with newly-formed bone to an almost normal degree. The writer closes the entire mastoid wound by Mitchel clamps and leaves only a small drainage opening at the lower margin. He prefers this method to the healing by granulations, as it permits of the formation of new bone from the preserved periosteum and thereby of better cosmetic results.

GLOGAU.

1717

The Use of Vaccines After the Mastoid Operation. W. C. BRAISLIN, *Ann. Otol., Rhinol. and Laryngol.*, V, XXII, 1914.

Braislin obtained favorable results in five out of six cases treated with vaccines (autogenous or stock) for bacterial infections complicating mastoidectomy. Some of these cases presented infiltration of the cervical glands, fever of obscure origin, delayed granulation of wounds and infection of the labyrinth.

ED.

1718

Modified and Conservative Radical Mastoid Operation for Tolerance or Prostheses in Cases of Diminished Hearing After Middle-Ear Suppuration. W. SOHIER BRYANT, *Med. Rec.*, July 11, 1914.

In a number of cases following middle-ear suppuration, the hearing can be considerably increased by the use of suitable prostheses, according to the writer. In some of these patients, however, the ear which has been dry begins to suppurate as soon as a prosthesis is applied. In such a case the author suggests the modification as of practical value. The technic consists in deflecting the auricle forward, together with the membranous canal. The posterior and superior canal walls are removed, exposing the attic, antrum and middle-ear, as in the usual radical operation. The middle-ear is carefully freed from obstruction, i. e., remnants of ossicles, cicatricial bands or walls of trabeculae. Care is exercised not to remove the dermoid covering of any structure that is to remain untouched. After the middle-ear has been cleaned of unnecessary contents, the membranous canal and concha are treated plastically, to insure an enlarged meatus. The major ossicles may be retained in position. A case is detailed, illustrating the value of the technic.

LEDERMAN.

1720

Parotid Fistulae Following Mastoid Operations. C. CANESTRO, *Ann. Otol., Rhinol. and Laryngol.*, V, 23, 1914.

The author reports a case of parotid fistula from the lower end of a mastoid incision, the fistula appearing immediately after the operation. Usual treatment with the galvano-cautery and injections of tincture

of iodin proved unsuccessful. Beck's paste was accordingly used and two injections of it permanently closed the fistula. In a review of the literature the author was only able to find another case on record of parotid fistula immediately following mastoid operation. There were four other cases in which the fistulae followed much later.

Concerning the cause of these fistulae Canestro believes that they are due to an operative wound of the salivary gland due to one of two conditions: (1) An anomalous conformation of the parotid that permitted part of the gland to cover a considerable part of the external surface of the mastoid; (2) An abnormal location on the mastoid of a gland somewhat hyperplastic, on account of past acute or chronic inflammatory processes that took a latent course. In this case the fistula would have followed a lesion of the parotid due to the manipulations in detaching the periosteum and not to incision of the gland. Ed.

1724

Treatment After Mastoid Operations. V. DELSAUX, *Presse Oto-Laryngol, Belge*, No. 2, 1914.

In cases of uncomplicated acute mastoiditis Delsaux regards the primary stitch closure of the post-aural wound as allowable only when there is a large perforation of the drum-head with ample assurance of drainage through the external canal. Also, when the post-operative treatment can be properly supervised. Otherwise packing is to be preferred. In chronic uncomplicated mastoiditis, after thorough evacuation and removal of diseased tissues and completion of the plastic portion of the operation in the external auditory canal, the post-aural wound is to be primarily closed and a light sterile gauze wick inserted into the external canal for the purpose of keeping the canal flap in place. The dressing is to be renewed every other day, or longer if feasible, until it is no longer needed. Then it may be substituted by lactol or boric acid insufflation.

If there be caries of the ossicles these should be removed before the radical operation is done. In cases of cholesteatoma the same procedure should be followed except that the surgically provided lumen of the external auditory canal should be made larger and no islands of epidermis should be left within the cavity of operation in order to guard against relapses. A firm packing is not advisable. Boric acid insufflation is preferable provided the accumulated powder is removed from time to time, the tympanic end of the tympanopharyngeal tube carefully cleansed, granulomata cauterized and all epidermal accumulations removed. Ed.

1725

The Blood-Clot Method as Applied to the Mastoid Operation. A. DIGHTON, *The Practitioner*, June, 1914.

Dighton endorses the blood-clot method and explains its beneficial action as depending upon the presence in the blood of two physiological substances: (1) the amboceptor, or immune body, which is produced in the blood by the presence of a particular bacterin within the body, and (2) the complement, or alexin, which, though occurring naturally in the blood-serum, has no action itself on the bacteria. When the bacteria have been acted upon by the amboceptor, however, the complement is able to dissolve them.

In the operation the author does not preserve the periosteum or make a periosteal flap. After the operation is performed, the cavity is dried with swabs, painted with pure carbolic acid and immediately dried out again. The skin edges are rubbed with gauze to promote bleeding and the wound closed with silkworm gut sutures (usually three). Ed.

1733

Operative Findings and Results in Mastoiditis. J. M. INGERSOLL, N. Y. *State Med. Jour.*, Feb., 1914.

The author briefly describes eight cases, with the result of surgical treatment. In nearly all the cases, radiographs were taken of both ears, so that the normal ear furnished a standard of comparison. Invariably, the diseased mastoid gave a dimmer picture than the normal one. Stereoscopic radiographs of the head were found to be exceedingly valuable helps in making the diagnosis and in determining the position of the sigmoid sinus and anatomical relations. In many cases it is possible to make a positive diagnosis of exposure of the dura and sinus, by studying these radiographs of the mastoid, before such exposure has caused any clinical symptoms.

LEDERMAN.

1742

A Radiographic Study of the Mastoid. OLIVER A. LOTHROP, *Bost. Med. and Surg. Jour.*, p. 343, March 5, 1914.

Drawing his deductions from a series of 460 x-ray plates, in the Massachusetts Charitable Eye and Ear Infirmary, the author gives conclusions as to the value of the x-ray in various forms of mastoiditis.

The picture obtained is more clear and defined than that by transillumination. The opposite mastoid should always be taken to permit of comparison with the normal, which varies much in different individuals. The cellular spaces of the mastoid, the triangular petrous portion, the ramus of the jaw, the root of the zygoma, the clearly defined mastoid tip, and the lateral sinus with its more distinct anterior border, are the chief points to be seen in a normal picture. Pathological changes which the x-ray plate aids in demonstrating include the early congestive stage of mastoiditis, the frank, purulent stage, the vascular partly broken down mastoid, and sometimes a perisinuous abscess or an extradural abscess, particularly if it is posterior to the limits of the cellular mastoid. As clotted blood does not show in a plate, sinus thrombosis has not been demonstrated in this series, nor has a brain abscess been diagnosed. The sclerosed mastoid of a chronic suppurative otitis whether active or healed, gives a clear-cut plate with a well-defined detail, showing frequently the mastoid vein and foramen, and in two plates, the Fallopiian canal. The mastoid itself shows its dense ivory bone with an absence of cellular elements in proportion as the suppurative and sclerotic process has advanced. In this series, the pathological process was about equally divided between the left and the right side. Of the cases with a clinical diagnosis of chronic suppurative otitis, 94 per cent showed total sclerosis of the mastoid and 6 per cent showed semi-sclerosis. In so-called "effectus" ears, where a former chronic suppuration had cleared, with or without a permanent perforation remaining, 56 per cent showed total sclerosis of the mastoid, 27 per cent were semi-sclerosed, and 17 per cent were cellular

or normal. Of the acute suppurative otitis cases, 10 per cent showed sclerosed or semi-sclerosed mastoids; while in those cases where no diagnosis of past or present suppurative otitis was made, 92 per cent had normal mastoids and 8 per cent were sclerosed or semi-sclerosed.

Five x-ray pictures each with a schematic illustration of what the picture shows, accompany the paper. The plates are selected interesting cases but became blurred a little in the printing and do not show all the author finds. They, however, add much to the value and interest of the paper.

BERRY (MOSHER).

1746

Two Spontaneous Petro-Mastoidian Enucleations. A. MAURICE (Paris), *Revue Heb. de Laryng. d'Otol. et de Rhinol.*, June 6, 1914.

Maurice reports two cases in which mastoid operations were refused and which by a fortunate chance resulted in a spontaneous cure. These cases prove that the most desperate cases may occasionally recover without surgical intervention, but they are so rare that we can seldom expect anything but a fatal result in such cases.

The first was a woman of 42, suffering from an old, chronic, fetid otorrhea of 20 years' standing, a complicating facial paralysis having existed for ten years. At the end of the canal, the middle-ear could be seen filled with fungoid granulations, and cholesteatomatous debris coming from the attic. A radical operation was advised and refused.

Six months later, this patient had occasion to return on account of an inflammation of the throat. Taking advantage of this to examine the ear, Maurice was amazed to find it entirely dry. The middle-ear was covered with a clean, white cicatrix, the attic, the aditus, the canal of the facial and the mastoid antrum were as completely visible as after a most brilliant radical operation. It appeared as if a surgeon had operated, left everything well cicatrized, but without a trace of the operation.

The patient reported that about three months before, there had come from the ear something dark, hard and spongy, with an odor of decomposition and two weeks later the ear had ceased to suppurate.

The second case, a woman of 53, suffering from a chronic, suppurating otitis media, developed a large swelling of the mastoid process and the usual symptoms of an acute mastoiditis and paralysis of the facial nerve. Although a mastoid operation was urgently indicated, a superficial incision was made at the request of the attending physician, liberating a mass of the most fetid pus. Being relieved from pain, the patient returned to the country.

Two and a half months later she returned to obtain relief from the facial paralysis. On examining the ear, Maurice found to his astonishment that the mastoiditis had been completely arrested. The canal showed the middle-ear free of granulations with a white cicatrix. The attic and surrounding parts were almost entirely visible as the walls of the cells no longer existed. The walls of the facial nerves appeared intact and it was impossible to find a fistula connected with the Fallopiian canal. The patient was distressed that nothing could be done for the facial paralysis but was consoled by the information that she had escaped the necessity of a dangerous operation.

W. SCHEPPEGRELL.

1749

Latent Mastoiditis. W. MITHOEFER, *Lancet-Clinic*, May 9, 1914.

The author cites several cases in which inflammation of the mastoid cells existed after apparent termination of the acute inflammation of the middle-ear. The drum membrane may be intact and there may or may not be a mild degree of deafness. The handle of the malleus may be ill-defined or there may be very slight bulging of the upper posterior quadrant of the drum membrane. On the other hand, the drum may be absolutely normal in appearance. In such cases, mastoiditis may be very easily overlooked even when the suppuration in the cells may be far advanced. Hence, the cessation of the discharge does not signify a cessation of the inflammatory process because the latter may be dormant for months or years in the mastoid cells.

The factors at work in the production of latent mastoiditis are (1) the anatomical character of the mastoid cells; (2) the shape and position of the antrum; (3) the variety of the infecting organism and (5) the resistance of the patient.

The indications for operation are: (1) pain on pressure over the mastoid with a history of a former discharge from the ear with a normal tympanic membrane and a positive x-ray plate; (2) painful mastoid with history of a former discharging ear, the tympanic membrane being hyperemic or slightly bulging in the upper posterior quadrant with a positive x-ray plate; (3) the presence of streptococcus mucosus in the exudate, with or without pain on pressure over the mastoid; (4) intracranial complications of probable mastoid origin.

Ed.

1758

Mastoiditis: A Complication and an Entity. W. S. TOMLIN, *Jour. Ophthalm. and Oto-Laryngol.*, Sept., 1914.

The mastoid cavity being a part of the middle-ear is probably involved in all cases of acute suppurative otitis media. It is rarely primarily involved except as a result of traumatism. Beginning mastoiditis is an inflammation of the mucous membrane lining the mastoid antrum and cells and is usually an acute process. Development of osteitis causes breaking down of the cell-walls and the formation of cavities or of one large cavity in the mastoid. In the examination of acute and sub-acute cases it is very important to inspect the innermost portion of the external auditory canal at its posterosuperior quadrant and if inspection shows a bulging over this area delay in operating is merely a waste of time.

Transillumination as a means of diagnosis is unreliable. Skiagraphy is more useful.

As the best treatment short of operation, the author recommends the use of silver nitrate or copper sulfate or the cautious use of the curette or snare to destroy granulations, followed by injections of alcohol. Subacute cases may be modified by Crede's ointment.

Early operation is, however, emphasized as also the dangers of postponement on hearing and life.

Ed.

1762

Two Unusual Cases of Mastoiditis in Children. W. WILSON, *Brit. Med. Jour.*, Feb. 21, 1915.

The first case was in a child two years of age who had a sudden attack of mastoid pain with slight edema above and behind the auricle. The membrana tympani was normal; constitutional symptoms were not marked. When operated upon three days after the onset, a subperiosteal abscess was found communicating with the antrum through a fistula in the outer wall of the antrum. No signs of middle-ear infection were present and the superficial air cells of the squamosa were largely infiltrated with pus.

The second child was eight years old and developed unilateral mastoid edema during recovery from whooping-cough. The tympanic membrane was not perforated but thin watery pus was present in the external meatus. Constitutional symptoms were not marked and there were no signs of intracerebral complications. At operation no pus was found in the middle-ear or in the antrum and the lateral sinus was normal. But, an abscess was found in the posterior fossa.

No perforation of the membrana tympani or suppuration of the antrum ever developed. Ed.

1773

Concerning the Surgery of Otogenous Cerebellar Abscesses. A. BLUMEN-THAL, *Berlin Monatschr. f. Ohrlhk.*, Vol. 48, No. 10, 1914.

The most sublime product of this, our technical era, is the otological engineer. Once upon a time clinical symptoms and pathological findings guided the aural surgeon in his operative measures; a pair of compasses, a measure tape and a thorough knowledge of geometry are, however, his up-to-date requirements. In order to get free access to a large cerebellar abscess you need a broad exposure of the dura. If the lateral sinus should interfere with your brain surgery, its double ligature and severance would apparently be the most logical thing. But the writer of this article presses a pair of compasses and a measure tape (both, of course, sterile), into your hands and makes you figure out circumference and area of the sinus by means of a sterile pencil and with the aid of the long-forgotten formulæ of the circumference and area of a circle ($2R\pi$ and $R^2\pi$). Should the result of this mathematico-geometrical operation show a circumference above 20. lmm. and an area above 32.84 m^2 , ligation of the sinus is contraindicated, as the sinus of the other side in such a case would probably not be large enough to drain the entire brain. However, where we have to deal with a thrombosed sinus, the writer permits us to cut right through the sinus into the cerebellar abscess, without first exposing the sinus of the healthy side, in order to establish by otological engineering its circumference and area. Where the operator insists upon the ligation and severance of the sinus, although compass and measure tape showed it to be too large, the sinus should be throttled. You simply throw a surgical lasso around the sinus without, however, strangling it at once. Should the patient like this partial choking of his sinus, the noose is drawn tight the next day. Geometrical otology is bound to render the writer's name immortal. If you connect

by means of a sterilized ruler and an aseptic pencil, the porus acusticus internus with the lowest point of the sulcus sigmoideus and the crossing of the sulcus sigmoideus and the upper edge of the pyramide, you obtain "Blumenthal's posterior pyramidal triangle." This triangle represents the triumphal arch through which the otological engineer has to drill his way into the cerebellar pus. Take a deep breath and sterilize compass, measure tape, ruler and pencil once more, in order to locate in the center of said triangle the fossa for the sacculus endolymphaticus. Before attacking the cerebellum, connect this point with the lines and angles of said triangle and measure the length of all the distances. In 148 specimens, Blumenthal measured the main and connecting lines of his triangle. He also measured the width of the lateral and medial wall of the sinus, its circumference and area. Consequently, this article displays a wonderful array of tables and statistics. It would be advisable to have the oto-geometrical results obtained by Blumenthal painted in black on the white walls of the operating-room, in order to facilitate the comparative studies of the otological engineer.

GLOGAU.

1781

Otitis Media and Brain Tumor. B. HIRSCHMANN, *Ztschr. f. Ohrenh.*, Bd. 71, H. 3, 1914.

Hirschmann reports two cases of the co-existence of otitis media and brain tumor from the clinic at Heidelberg and gives brief abstracts of other such cases occurring in the literature—a total of thirty-four cases. Differential diagnosis from the symptomatology is very difficult and fever as a constant symptom of brain abscess is quite variable (Macewen has reported a series of cases in which the temperature was normal or even subnormal). Choked disc was present in fifty per cent of the cases, convulsions in eleven and paralysis of the eye muscles in eleven.

Roentgen examination of the skull, in the author's two cases was normal.

Ed.

1814

The Curability of Otogenous and Traumatic Meningitis. A. DENKER, *Ztschr. f. Ohrenh.*, Bd. 70, Heft 3-4, p. 188, 1914.

By analyzing four cases of otogenous meningitis, the writer arrives at valuable diagnostic and therapeutic conclusions: In the presence of characteristic clinical symptoms, the diagnosis of diffuse suppurative meningitis can be established, when the cerebro-spinal fluid, under lumbar puncture, proves to be under high pressure and shows marked increase in leucocytes.

The presence of pathogenic micro-organisms in the cerebro-spinal fluid is of no essential diagnostic value. By appropriate therapeutic and operative measures, diffuse suppurative meningitis is a curable disease. The four cases show the following important features:

Case 1: Post-operative meningitis, headaches, lowered mentality, pronounced motoric unrest, pains in the neck, high temperature, cerebro-spinal fluid under high pressure showing numerous polynuclear leucocytes. Treatment: drainage of the subarachnoidal space, Urotropin. Recovery.

Case 2: Case of latent cerebral abscess, progressing within a few hours into a manifest stage of numerous general and local cerebral symptoms

and leading to a "terminal" stage, where, through pressure upon the vital center within the medulla oblongata, respiration stopped. Cerebro-spinal fluid turbid, containing numerous polynuclear leucocytes, but no bacteria. Therapy: Incision into cerebral substance through necrotic dura above the tegmen tympani. Introduction first of a closed anatomical forceps and then of a gauze drainage tube. Evacuation of large quantities of foul pus. Recovery.

Case 3: Bilateral chronic middle-ear suppuration complicated by acute symptoms: dizziness, nausea, lowered mentality, sensitiveness to pressure along the vertebral column, positive Kernig and Babinski, cerebro-spinal fluid under high pressure. Operative exposure proves that the infection of the cranial cavity started from the apex of the upper semi-circular canal, where at the floor of the middle cranial fossa, an extradural abscess had formed. The latter brought about a small cortical abscess and infection of the meninges. Therapy: operative drainage. Notwithstanding the removal of the upper and posterior semi-circular canals, caloric reaction could be elicited.

Case 4: Labyrinthogenous meningitis, facial paralysis, high temperature, vomiting, chills, cerebro-spinal fluid under high pressure containing numerous polynuclear leucocytes, no bacteria. Fistula in horizontal semi-circular canal. The latter filled with pus. Therapy: Labyrinthectomy.

Case 5: The writer adds the report of a case of traumatic meningitis and draws from this, too, the lesson that early operative interference is apt to save the life of the patient. About two weeks after a fall on the head the patient showed swelling of the mastoid, slight facial paralysis, apathia and high temperature. Local inspection of the drum revealed a traumatic perforation covered by bloodcrusts. Cerebro-spinal fluid under high pressure. At the operation the fracture of the base of the skull was seen passing through the sulcus transversus, the posterior meatal wall, the tegmen and the anterior meatal wall. The mastoidal cells and the tympanum were filled with secretion and granulations. The sinus transversus was slightly covered with granulations. The trauma made a communication between the tympanum and the cranial cavity and thus spread the infection from the former into the latter. The blood coagulum within the middle ear was infected either through the Eustachian tube or through the perforation of the drum. The writer advocates in cases of fracture of the base of the skull the immediate exposure of the mastoid cavity, when acute or chronic middle-ear suppuration previously existed, or when acute otitis media follows the accident.

GLOGAU.

1879

New Laryngeal Sound Registrating Apparatus. G. PANCONCELLI-CALZIA, *Ztschr. f. Laryngol.*, p. 339, Sept., 1914.

The apparatus registers those vibrations of the air-current that may be felt by applying the finger to the thyroid cartilage. It therefore demonstrates the presence or absence of voice, its pitch and duration. A rubber-covered funnel, to be pressed against the thyroid cartilage, is connected by means of a rubber tube with a recording tambour. On the latter a lever is resting whose brush-like end registers on a recording and revolving drum the laryngeal sound-vibrations. By interposing a rubber ring between the metal part of the lever and the tube the apparatus is

rendered extremely sensitive. For two years the writer has been using his apparatus with the greatest success in the phonetic laboratory of the seminary for colonial languages of Hamburg for the examination of both normal and pathological speech conditions. The added illustrative sound-curves demonstrate the practicability of the apparatus. Those laryngologists who occupy themselves with corrections of defects of speech and voice will find this little apparatus of both practical and scientific value.

GLOGAU.

1973

Diseases of the Pituitary Gland and Their Effect on the Shape of the Sella Turcica. E. G. FEARNSIDES, *Lancet*, July 4, 1914.

In acromegaly there is always some definite evidence of an increase in size of the pituitary fossa. Three types of enlargement are differentiated by Cushing: (1) Those associated with thickening of the clinoid processes and dorsum of the sella turcica; (2) those showing thinning from pressure absorption of these parts and (3) those showing destruction of all the outlines of this region. The so-called "superimposed tumors" arising from the petuitary stalk in the interpeduncular region and situated above the sella produced changes in the sella only after they have attained a large size.

Ed.

2151

Peculiar Form of Hyperplasia of the Mucous Membrane of the Upper Respiratory Tract. A. L. TURNER, *Jour. Laryngol., Rhinol. and Otol.*, Feb., 1914.

Turner describes two cases of his own and four from other observers. Four of the cases were in women and two in men, and the ages from 30 to 52. The main clinical feature was a smooth, uniform, more or less diffuse infiltration of the uvula and soft palate, along with the palatal pillars, the posterior wall of the pharynx and the structures forming the upper aperture of the larynx. There was no ulceration so that pain was not a marked symptom. These cases continued for years with little or no change.

Ed.

2172

Diseases of the Nose, Throat and Ear; Medical and Surgical. W. L. BALLENGER, Lea and Febiger, New York and Philadelphia, 1914.

In this new edition—four large editions in but six years—the important features will be found in the chapter on the labyrinth. This comprises over one hundred pages of new material. The question of nystagmus is given plenty of illustration for there are thirteen original colored plates that elucidate its physiological and pathological manifestations. Twelve drawings, also, illustrate the Newmann and the Hinsberg labyrinth operations. Mosher's fronto-ethmoidal operation is described in full and is illustrated by five drawings. So also Haynes' operation on the cisterna magna where five drawings also illustrate the technique.

Another important addition in the present edition is the use of Salvarsan in the treatment of syphilis of the brain and auditory nerve. His 'leucocyte-extract therapy and its value in infectious diseases when complicated by inflammation of the nasal sinuses and meninges is also considered.

It seems regrettable, however, that in such a splendid work the subject of suspension laryngoscopy should have been omitted and that laryngoscopy and bronchoscopy are not treated with sufficient detail.

2180

Phantom der normalen Nase des Menschen (Phantom of the normal nose in man). DR. HANS BUSCH, p. 34, with three colored plates. J. F. Lehman's Verlag, Munich, 1914. Price, M. 3.

This phantom constitutes an interesting and practical means of popularly demonstrating the various parts of the nose and naso-pharynx, especially when an explanation of certain parts to patients is required, or in lecturing to nurses, under-graduates, surgeons, etc.

The Practitioner's Visiting List for 1915. Four styles; weekly, monthly, perpetual, sixty-patient. Pocket size; substantially bound in leather with flap, pocket, etc.; \$1.25, net. Lea & Febiger, Publishers, Philadelphia and New York.

This simple announcement of the continuation of this practical visiting-list will suffice to remind our readers of its value.

2187

Obiter Scripta: Throat, Nose and Ear. R. FRILL, John Wright & Sons, Bristol, 1914.

This is a little volume of forty pages divided into three chapters: (1) "Miscellaneous Notes on Common Conditions in the Throat, Nose and Ear," in which anesthetics, tonsillectomy, hemorrhage, defective nasal respiration and such subjects are touched upon; (2) "Zinc Nonization," of which the author is a devotee, stating: "Ionization with zinc is, I believe, the ideal treatment for many cases of chronic middle-ear suppuration;" (3) "The treatment of Ozena." The treatment recommended by the author that has given him the best results consists of: (1) Removal of crusts daily for the first two weeks by forceps. Bacteriologic examination and preparation of vaccine; (2) Injection of a dose of Friedländer bacterin small enough to cause slight malaise (two million of a living sensitized emulsion); (3) Ionization of ethmoidal cells; (4) Daily swabbing of nose with a solution of menthol in paroline.

2190

Die Nasen, Rachen und Ohrerkrankungen des Kindes in der Täglichen Praxis. PROF. DR. F. GÖPPERT, Julius Springer, Berlin, 1914.

This work forms one of the volumes of the "Enzyklopädie der Klinischen Medizin" under the editorial direction of Langstein, V. Noorden, V. Pirquet and Schittenhelm, and although it comprises only 169 pages, it is a valuable handbook for the German-reading physician to have in his medical library. It is divided into four parts, and it is remarkable with what thoroughness and conciseness the respective subjects are dealt with. Part one takes up the question of Nasopharyngitis: (a) Nasopharyngitis of infants; (b) Nasopharyngitis in children after the first year. Part two treats of the individual local diseases of the nose and pharynx. Part three treats of the diseases of the middle ear and sequelæ and part four the diseases of the nasopharynx and middle-ear in their relation to the acute infections.

Another valuable point is that after every chapter an extensive bibliography is appended. The work is to be commended not only because of the excellence of arrangement of its material but also because of the clearness of the plates and drawings, of which there are twenty-one, that amplify it.

2191

Text-Book of Local Anesthesia for Students and Practitioners. DR. GEORG HIRSCHL, Translated by Donald E. S. Krohn, M. D., John Bale, Sons and Danielson, Ltd., London.

This volume is rather small but it is fairly accurate in the account of the methods of inducing local anesthesia in the different parts of the body. The amount of space devoted to the consideration of local anesthesia in oto-laryngological operations is, however, very restricted, so that to the oto-laryngologist the book will prove to be rather disappointing.

2192

Geschichte der Nasenheilkunde. DR. KARL KASSEL, Curt Kabitzsch, Wuerzburg, 1914.

To prepare a history of rhinology, covering the period from the inception of medicine to the year 1800, entails so many difficulties and so much labor in obtaining and compiling authentic data that one who undertakes such a task must be possessed of supreme patience and courage. These virtues on the part of the author are fully shown by the present volume. He has reviewed the immense literature of the past, beginning with Egypt, which is mentioned as the Cradle of Medicine, and has shown skill and good judgment in presenting such facts as are of interest and value to those who are historically inclined. The history of medicine, and no less is this true with a special branch of medicine, is always interesting reading.

As a medico-historical work, written in an easy and entertaining style, it is a source of recreation as well as of instruction.

2196

Text-Book of Diseases of the Nose and Throat. D. B. KYLE, W. B. Saunders Co., Philadelphia, 1914.

One of the features of Dr. Kyle's book is the descriptive pathology brought out in connection with each subject. The present edition (fifth) contains additional articles on vaccine therapy, lactic bacteriotherapy in atrophic rhinitis, salvarsan in syphilis of the upper respiratory tract, sphenopalatine ganglia neuralgia, negative air pressure in accessory sinus diseases, chronic hyperplastic ethmoiditis, congenital insufficiency of the palate.

The book is well adapted for the specialists' use and is a more complete and splendid text-book for students and general practitioners.

2199

Operative Surgery of the Nose, Throat and Ear for Laryngologists, Otol-ogists and Surgeons. HANAN W. LOEB, C. V. Mosby Co., St. Louis, 1914.

This work is to come in two volumes, but the second volume has not yet appeared. The first volume deals with the surgical anatomy of the nose,

throat and ear, the external surgery of the throat, the direct examination of the larynx, trachea, bronchi, esophagus and stomach and the operations made possible through this direct examination; the plastic surgery of the nose and ear.

It is an up-to-date treatise on this special subject and the object of the work is to present the method of operating, the indications, contraindications, after-treatment and results of operation and not the pathology, symptomatology or etiology with which the operator is presumed to be familiar.

2202

Gehoerorgan und Beruf. DR. OSKAR MAUTTNER, Curt Kabitzsch, Wuerzburg, 1914.

This is a monograph which considers two topics: (1) the bearing of impaired hearing upon the choice of an occupation and (2) the various occupational lesions to which the auditory sense is subject.

The author pleads for the appointment of aurists as school inspectors for many young people, with progressive ear trouble, have been made miserable by the choice of an unsuitable occupation. The monograph is of interest to sociologists as well as to physicians.

2203

Lehrbuch der Grenzgebiete der Medizin und Zahnheilkunde. DR. JULIUS MISCH, Fernand Enke, Stuttgart, 1914.

This work, comprising one thousand pages, embraces more than its title denotes. Instead of confining itself to the "borderline of medicine and dentistry" it is in reality a very thorough work on medicine in which the buccal and dental relationships to the various diseases considered are emphasized. Some of the material might have been omitted without deflecting from the value of the book as a whole, for it is not intended to be a complete system of medicine. So, for example, aortic aneurysm, Adams-Stokes' disease, mitral insufficiency, gastric ulcer and cancer have very little immediate relationship to dentistry.

Special mention must, however, be made of the section on dermatology in relation to buccal and dental affections which is not only exhaustive but the colored drawings, of which there are very many, represent the height of excellence.

The book as a whole is very profusely illustrated. The chapters on diseases of the nose, throat, eye and ear are each very complete in themselves.

2206

Pathogenic Micro-organisms. A Practical Manual for Students, Physicians and Health Officers. WILLIAM HALLOCK PARK, M. D., and ANNA W. WILLIAMS, M. D., New York City. Fifth edition, enlarged and thoroughly revised; p. 684, with 210 engravings and 9 full-page plates. Lea and Febiger, Philadelphia and New York, 1914. Price, cloth, \$4.00 net.

The progress in communal co-operation in preventive medicine, sanitation, hygiene, municipal hospitals, legislative acts, etc., has been so rapid in many of the larger cities of this country, during the past few years,

that every physician in the community, every health officer, even every public-spirited citizen and civic worker finds it necessary to acquire more than a superficial knowledge of the fundamental science from which these activities have emanated.

The new fifth edition of this standard and popular work by Park and Williams is more in demand than ever and may still be regarded as one of the best reference-books and working-manuals in the field of bacteriology in its practical application.

The authors, prominently identified with the Bureau of Laboratories of the Department of Health of New York City, are eminently qualified to present this useful phase of bacteriological science in its practical application to broader civic management.

This book considers such important subjects as "Bacteriological examination of water, air and soil;" "Bacteriology of milk;" "Water purification;" and many other phases of applied micro-biology.

It is a splendid reference-book for every physician as an aid to his daily professional work and in any civic capacity in which he may be engaged; it is an almost indispensable companion to health officers, heads of laboratories and departments of sanitation and hygiene.

2216

Lehrbuch der Ösophagoskopie. DR. HUGO STARK, Curt Kabitsch, Wuerzburg, 1914.

This work is divided into two parts: General and special. The general part deals with the development of esophagoscopy, anatomy and physiology of the esophagus, technic, special methods of instrumentation, complications, dangers and contraindications. The special part takes up the significance of esophagoscopy in diagnosis and therapeusis and a consideration of the individual condition met with.

It is a book primarily intended for the specialist in this field. It is also amplified by the citation of illustrative case-histories and the minute consideration of points in differential diagnosis makes it a valuable addition to the literature of this subject.



